CANMET

Canada Centre for
Mineral and Energy
Technology

Centre canadien de la
technologie des
minéraux et de l'énergie

Efficiency and Alternative Energy Technology Branch

Direction de la technologie de l'efficacité énergétique et des énergies de remplacement

Energy, Mines and
Resources Canada

Énergie, Mines et
Ressources Canada

Canada

THE ENERGY OF OUR RESOURCES · THE POWER OF OUR IDEAS

L'ENERGIE DE NOS RESSOURCES · NOTRE FORCE CREATRICE

91-01333/

SMALL HYDRO PROJECTS AND POTENTIAL SITES IN BRITISH COLUMBIA

PREPARED FOR:

Efficiency and Alternative Energy Technology Branch
Energy, Mines and Resources Canada
Ottawa, Ontario
March 31, 1986

Updated March 31, 1989
Reprinted March 31, 1990

PREPARED BY:

Sigma Engineering Ltd
and Patrick Fawkes, P Eng
800-1176 West Georgia Street
Vancouver, British Columbia
V6E 4A2

MICROMEDIA

SCIENTIFIC AUTHORITY:

368pp

Tony Tung
Efficiency and Alternative Energy Technology Branch
Energy, Mines and Resources Canada
580 Booth Street
Ottawa, Ontario
K1A 0E4

CITATION

Sigma Engineering Ltd and Fawkes, P. Small Hydro Projects and Potential Sites in British Columbia. Efficiency and Alternative Energy Technology Branch, Energy, Mines and Resources Canada, Ottawa, Ontario. 1990 (380 pp.)

Copies of this report may be obtained through the following:

Efficiency and Alternative Energy Technology Branch
Energy, Mines and Resources Canada
580 Booth Street, 7th Floor
Ottawa, ON
K1A 0E4

or

Interlibrary Loans
CISTI Library
National Research Council
Bldg. M-55, Montreal Road
Ottawa, ON
K1A 0S2

Copies of the computer disks may be obtained at cost from:

Sigma Engineering Ltd
800-1176 West Georgia Street
Vancouver, BC
V6E 4A2 Phone (604) 688-8271

DISCLAIMER

This report is distributed for informational purposes only and does not necessarily reflect the views of the Government of Canada nor constitute an endorsement of any commercial product or person. Neither Canada nor its ministers, officers, employees or agents makes any warranty in respect of this report or assumes any liability arising out of this report.

©Minister of Supply & Services Canada 1990
Catalogue No. M91-7/78-1990E
ISBN. 0-662-17737-1

INTRODUCTION

La présente publication se veut un condensé d'information sur l'aménagement des petites centrales hydro-électriques en Colombie-Britannique. Elle fournit des renseignements de base sur les systèmes d'exploitation, sur les sites exploités dans le passé, sur l'hydrologie, sur les détenteurs de droits de captation d'eau (visant les volumes d'eau utilisés et retenus), ainsi que sur les compétences spécialisées accessibles. Les études de cas et les descriptions d'entreprises antérieures peuvent aider, de maintes façons, à la réalisation des projets à venir. Ce document ne renseigne toutefois pas sur la conception proprement dite. Les intéressés trouveront ce genre de renseignement dans deux autres publications d'Énergie, Mines et Ressources Canada intitulées "The Small Hydro Design Manual" et "The Hydrology at Ungauged Sites".

La définition des petites centrales hydro-électriques englobe, en général, les projets de moins de 20 MW. Celle-ci porte toutefois à confusion, car la majeure partie des projets de centrale génèrent moins de 100 KW. La scène des petites centrales hydro-électriques en Colombie-Britannique sera sûrement dominée par les centrales plus petites et, peut-être aussi, par une deuxième catégorie de centrales plus importantes si les conditions économiques le permettent. Le scénario le plus susceptible de se concrétiser annonce la multiplication ininterrompue de petites centrales (de moins de 500 KW) isolées et indépendantes, destinées à approvisionner en énergie des agglomérations éloignées, des logements privés et de petits commerces. Dans certains cas, ces petites entreprises remplaceront des centrales au mazout, alors qu'elles se substitueront au réseau dans certains autres. La réalisation de nombreux projets de centrales de plus de 500 kW sera en grande partie fonction de la capacité d'incorporer l'énergie électrique au réseau provincial, éventualité qui a peu de chances de se réaliser à court terme, mais qui pourrait survenir à moyen terme au fur et à mesure que l'augmentation de la demande intérieure et des ventes à l'exportation réduira l'excédent de production d'électricité de la province. Ce document serait également utile à ce chapitre en fournissant des renseignements pertinents sur les droits de captation d'eau, sur les barrages et sur les projets antérieurs qu'il vaudrait la peine de réaménager.

La publication servira un objectif double: celui de donner un aperçu de la situation des petites centrales hydro-électriques en Colombie-Britannique au début de 1989 tout en fournissant un instrument de planification en vue de l'exécution d'analyses ultérieures et de la tenue de dossiers. La planification est facilitée par un ordinateur qui verse dans une base de données tous les renseignements produits par les recherches. La base de données permet d'analyser les données inscrites dans huit grandes catégories sous au plus 31 titres. Il est possible d'effectuer le tri des données inscrites sous des titres clés ainsi que d'exécuter des renvois réciproques d'une catégorie à l'autre. Il est également possible de faire l'édition, la mise à jour et l'addition de dossiers au fur et à mesure que de nouveaux renseignements deviennent disponibles. Notons que la section 11 fournit des précisions sur le fonctionnement de la base de données et que la section 13 traite de la cartographie.

Cette publication est essentiellement un projet de recherche mené à bien grâce à l'aide très appréciée d'un grand nombre de personnes et d'organismes qui ont procuré des renseignements de base sur des projets qu'ils connaissent bien. Leur contribution est décrite au tableau 1.1.

CONTENTS

Page No.

1. INTRODUCTION 1-1

2. SMALL HYDRO INFORMATION CATEGORIES AND THEIR USES

2.1 General Presentation 2-1
2.2 Operating Systems 2-1
2.3 Case Studies 2-8
2.4 Historical Projects 2-8
2.5 Feasibility Studies 2-9
2.6 Prefeasibility Studies 2-10
2.7 Hydrological Information 2-11
2.8 Water Licences 2-16
2.9 Dams and Flow Regulating Devices 2-17
2.10 Mapping 2-18

3. OPERATING SYSTEMS LISTINGS 3-1
LISTED BY:
3.1 Reference Number 3-2
3.2 Source Name 3-10
3.3 Owner's Name 3-12
3.4 Plant Name 3-14

4. CASE STUDIES Page 4-0
4.1 Rocky Mt Trout Farm (10kw) 4-1
4.2 Holmden Creek (10kW) 4-4
4.3 Parmenter Power (10kW) 4-8
4.4 Carson Hydro (6kW) 4-13
4.5 Argenta Co-op (40kW) 4-13
4.6 Douglas Power Plant (30kW) 4-16
4.7 Weston Shingle Mill (90kW) 4-22
4.8 Three Valley Gap (150kW) 4-26
4.9 McDonald's Ranch (400kW) 4-31
4.10 Clayton Falls (700kW) 4-36
4.11 Tennent Creek (3000kW) 4-39
4.12 Moresby Lake Hydro Project (6MW) 4-43
4.13 Mac Hydro #1 Increased Output to BC Hydro (75kW) 4-47
4.14 Ptarmigan Creek (300KW) 4-48
4.15 Strathcona Park Lodge (75kW) 4-52
4.16 Coats Hydro Electric (150KW) 4-57
4.17 Small Residental System (1500W) 4-60
4.18 Small Residential System (210W) 4-62
4.19 Small Residential System (500W) 4-63
4.20 BC Hydro Policies on Power Purchases 4-65

Page

5. HISTORICALLY SIGNIFICANT PROJECTS 5-1
5.1 Barriere (1350 kW) 5-2
5.2 Britannia (5350 kW) 5-4
5.3 Falls Ck, Anyox (4940 kW) 5-10
5.4 Goldstream (2200 kW) 5-13
5.5 Illecillewaet (900 kW) 5-15
5.6 Jordan River (3280 kW) 5-17
5.7 Puntledge (7000 kW) 5-21
5.8 Ocean Falls (10,200 kW) 5-24
5.9 Hedley Creek & Similkameen R. (1320 kW) 5-26
5.10 Woodworth (900 kW) 5-28
5.11 Goat River (1185 kW) 5-30
5.12 Swanson Bay (320 kW) 5-31
5.13 Kuskanax Creek (250 kW) 5-32
5.14 Millstream (350 kW) 5-34
5.15 Granite Falls (40 kW) 5-36
5.16 Cougar Lake (750 kW) 5-38
5.17 Juniper Creek (150 kW) 5-40
5.18 Glacier (50 kW) 5-41
5.19 Fortunes Creek (100 kW) 5-42
5.20 Cascade and Fletcher Creeks (830 kW) 5-43

6. FEASIBILITY STUDIES LISTINGS 6-1

7. PREFEASIBILITY STUDIES LISTINGS 7-1

8. HYDROLOGICAL INFORMATION 8-1

9. WATER LICENCE LISTINGS 9-1

10. DAMS AND FLOW REGULATION LISTINGS 10-1

11. COMPUTER OPERATING GUIDE 11-1
11.1 Introduction 11-2
11.2 Description of the Database 11-2
11.3 Getting Started 11-3
11.4 Using the Database 11-9
11.5 Data Output 11-27
11.6 Global (hard disk only) 11-28
11.7 Quitting the Database 11-29

APPENDIX 1 Error Codes
APPENDIX 2 Database File Layouts

12. REFERENCES 12-1

13. MAPPING

LIST OF TABLES

Page

1.1 Acknowledgements 1-3

2.1 Mapping Designations 2-20
2.2 Purpose-Use Codes 2-21
2.3 Construction Cost Indices 2-22
2.4 Small Hydro Database: File Contents 2-23
2.5 Region, District and Precinct Codes 2-24

3.1 Example of Operating System Information Screens 3-2

4.1 Summary of Case Studies 4-0

5.1 Summary of Historical Projects 5-1

6.1 List of Consultants with Feasibility and Prefeasibility Study Experience 6-3

7.1 Sample Pages of Prefeasibility Studies (including historical documents)
  7.1.1 Water Powers of British Columbia 1919 7-4
  7.1.2 Water Powers of British Columbia 1930 7-5
  7.1.3 Water Powers of British Columbia 1954 7-6
  7.1.4 Location Map for Regions Listed in Technology and Resource Assessment (Sigma, 1982) 7-7
  7.1.5 Sample Computer Listing of Resource Overview Studies 7-8
  7.1.6 Water Power Listings, Undeveloped Sites in British Columbia, 1961 7-23
  7.1.7 Undeveloped Power Sites in British Columbia 7-24

8.1 Hydrological Assessments Listing 8-2

8.2 Hydrometric Station Information
  8.2.1 Alphabetical Index 8-3
  8.2.2 Station Number Index 8-11
  8.2.3 Sample Historical Streamflow Summary 8-19
  8.2.4 Sample Annual Surface Water Data 8-20

1. INTRODUCTION

This publication is intended to be a compendium of information relative to small hydro power in British Columbia. It provides background information on operating systems, historical sites, hydrology, water licence holders (both flow and storage) and available expertise. Through the case studies and the historical descriptions many ideas are provided which may be relevant to future projects. Additional information on small hydro systems and streamflow analysis may be found in two other publications from Energy Mines and Resources Canada, the **"Small Hydropower Handbook for British Columbia"** and **"Hydrologic Design Methodologies for Small-Scale Hydro at Ungauged Sites in British Columbia"**, also known as IMP (Integrated Method for Power Analysis).

Small hydro power is generally defined as applying to projects less than 20 megawatts. However this is a misleading definition as the majority of projects are less than 100 kW. The future of small hydro power in British Columbia can be dominated by the smaller category for certain and possibly a second, larger category if economic conditions are right. The most likely scenario will see a continued development of small (less than 500kW) isolated, independent plants, serving remote communities, private dwellings and small business enterprises. The plants will replace diesel generation in most cases, but some will actually displace a utility connection. Development of many projects greater than 500 kW will depend largely on the acceptance of power into the provincial grid, based on a policy announced by BC Hydro in June, 1988, which makes small hydro development more likely in the medium to long term as the provincial surplus of electricity is reduced through growth in domestic sales. The publication will also benefit these developments by providing the applicable information on water licences, dams and historical projects which may show potential for redevelopment.

The publication serves two purposes, that of a snapshot of small hydro in British Columbia in early 1989, as well as a planning tool for future analysis and record keeping. The planning aspects are conveniently handled by a computerized data base package which records all of the information retrieved by the research. The data base permits analysis of the data in the eight main categories in up to 30 headings. Sorting under key headings is possible as well as cross referencing between categories. The capability exists to edit, update and add records as new information becomes available. Details of operating the database are covered in Section 11, while mapping is provided in Section 13.

The publication is mainly a research project, and has depended on many individuals and organizations to provide background information on projects they are familiar with. Their assistance is gratefully appreciated, and their contributions are acknowledged in Table 1.1.

Full size black line maps are available at 1:2,000,000 scale, 74 cm x 84 cm (2 ' x 3'). Map 1 is Operating Systems; Map 2 is Case Studies, Historical Description, Feasibility and Prefeasibility Studies; and Map 3 is Precincts, Licences and Dams. Contact EMR Canada, Vancouver Programs Office, Energy Efficiency and Diversity for the name of the blueprint copying service where prints can be obtained at cost.

A set of IBM PC (or compatible) computer discs is available for either a hard disc or floppy disc system. The hard disc system is a 3-disc set; the floppy system consists of 7 discs. Both sets are available at cost from Synex International Inc, Suite 800 - 1176 West Georgia Street, Vancouver, BC, or from Ashley Fraser Inc, telephone 291-2353.

TABLE 1.1

ACKNOWLEDGEMENTS

Planning and Liaison

Energy, Mines and Resources Canada
Ministry of Environment, Power and Special Projects
Inland Waters Directorate, Environment Canada

Power Plant Owners and/or Water Licence Holders

B Anderson
Argenta Water Power
J Berube
BC Hydro
BC Ministry of Environment
J A Brown Mill
G Carson
W Clayards
Cominco Ltd
Copper Beach Estates
J Dougan
H Frederickson
N Garam
Garibaldi Lodge
Great Glacier Salmon
G Gray
W Harlock
P Hennell
J Hobbs
Hoeya Hilton
L England
J Harestad
E Hohndorf
S Jacob
D Jones
A Karas
J King
E Lannon
D Laverock
T May
McCall Enterprises
J McNeill
McDonald Ranch
F Millerd & Co
M Mundall
City of Nelson
T Nelson
Nimmo Bay Resort
D & L Parmenter
Pretty's Timber
W Rebinsky
R Reiswig
F Howe
Rocky Mountain Trout Farm
F Ruljancich
A Simor
Slim's Exploration
Slocan Star Mines
G Smyth
M Summers
H Thiessen
Three Valley Gap Motel
J Vanderhoek
G Waite
D Watson
West Kootenay Power and Light
Westmin Resources
Western Pulp Ltd
Western Pulp Ltd
Western Shingle Mill
L Woolman
P Wronski
C Coates
Pacific Aqua Foods

Information on Dams

Water Management Branch Regional Offices
BC Ministry of Environment

Historical Information

Provincial Archives Visual Records
Vancouver Public Library
Historical Photographs Section

A & H McDougall

TABLE 1.1

ACKNOWLEDGEMENTS (Cont'd..)

Consultants

- Crippen Consultants
- Northwest Hydraulics
- Acres International
- Golder Associates
- C Holt
- Westcrow Engineering
- Solace Micropower
- P Fawkes
- Sigma Engineering
- Appropriate Energy Systems

Manufacturers

- P Koch
- Westlund Industrial
- Dependable Turbines

2. SMALL HYDRO POWER INFORMATION CATEGORIES AND THEIR USES

2.1 GENERAL PRESENTATION

In this section the presentations of the categories shown in Section 3 through Section 10 of the publication are described. Most of the categories are lists of information (except Case Studies and Historical Projects) derived from the computer database package. Once familiarity with the use of the categorized information is obtained by the individual, this Section 2 will not need to be referred to. The reference lists and maps will then be able to stand alone, and can be consulted when needed. The following subsections describe the contents and use of each information category, as well as describing how the information was obtained.

2.2 OPERATING SYSTEMS

The two main sources of data on operating systems are existing water licence records and a questionnaire. The questionnaire was created for this study and was sent to holders of water licences for power plants. A response rate of about 30% was obtained, the general quality of the replies received was good, and it was obvious by the effort that small hydro power owners are enthusiastic about their projects.

2.2.1 Water Licence File Categories (Water Management Branch Records)

a) **Plant Number:** A 4-digit reference number unique to one installation/location (multiple units have the same plant number).

b) **Water License Number:** A 7-digit number which applies to the licence to use water for power generation. Other licences involving storage, flooded land, and occupied land, as well as alternative water uses may also apply to the same project. 'C' preceding the number refers to a conditional licence. 'F' preceding a number refers to a final licence. 'O' preceding a number refers to Other systems.

c)	**Number of Licences:**	The number of types of licence referred to in (b). Power, storage and land right of way would require three separate licences.
d)	**Plant Name:**	Usually refers to a geographic location.
e)	**Owner:**	Legal name of the individual or company which holds the water licence.
f)	**Stream Name:**	The geographic name of the source watercourse for the project, if applicable (some plants withdraw water directly from a reservoir). All water licences must be on a named stream, hence unnamed streams can have a name suggested by the first person to obtain a water licence on the stream. Such names may or may not be in the B.C. Gazeteer.
g)	**Reservoir Name:**	If the source is a lake or a named artificial reservoir this name will be shown.
h)	**Map Location:**	Projects have a variety of map location numbers. A four digit number refers to the Water Resource Map number, and further information can be obtained from Ministry of Environment offices. A number of the form 92G/SW or 92G/6 refers to the National Topographic Series mapping. A number of the form 92G.044.4.3 refers to a location according to the BC Geographic System of Mapping, as explained in Table 2.1.

i)	**Latitude and Longitude:**	The geographic coordinate of the project. Note that many projects have an estimated coordinate, which would lead one to the correct map for detailed study.
j)	**Capacity:**	The installed or licensed capacity of the project. Some projects are operating at much less than licensed capacity, due to a changed usage since the licence was established or because the licence was established with load growth in mind.
k)	**Priority:**	The date upon which the "notice to apply for the water licence has been registered". This date establishes the prior rights of an individual to beneficially use water ahead of any subsequent applicants.
l)	**Precinct:**	The Water Management Branch descriptive designation of an area. It is a convenient means of grouping projects of similar hydrologic patterns and geographic proximity. Precincts are generally smaller in areas of higher population and higher water use.
m)	**Quantity:**	The licensed flow for the project. Where storage is indicated, the quantity is the licensed storage.
n)	**Units:**	The unit of flow or storage as follows: A - acres, B - acre ft, D - gallons per day, G - gallons, Q - cubic ft per second, T - total flow, M - Metric, either cubic metres of storage or m^3/s of flow. Where storage is shown it is always larger than flow.
o)	**Purpose:**	All water licences have a purpose attached, such as domestic use, irrigation and power. There are 37 purpose codes possible, but only the projects licensed for

hydro power are listed in this section. The complete list of codes is shown in Table 2.2. Licences with quantities and purpose codes potentially suited for hydro power are described in Section 2.8 and shown in Section 9.

p) **Number of Purposes** This section designates how many uses are made of the water licensed, indicating that there may be other licences for the same site.

2.2.2 Categories Derived from Questionnaire Responses

Additional information on operating systems came from a questionnaire mailed to each licence holder. The questionnaire requested detailed information on the project parameters, operating experience and project costs. The information is presently not available in water management branch files, but it is included on the database where possible. Detailed responses will be maintained in Water Management files and future projects will be required to provide design information as part of their application. The categories provided are as follows:

a) **Description:** If a hydro project has had a case study or historical description written about it in this publication, there is indication provided. (Yes or No).

b) **Date:** Completion date of the project. This would usually be after the priority.

c) **Head:** The elevation difference in metres between the intake and the powerhouse.

d) **Penstock Length:** The distance in metres between the intake and the powerhouse. The actual penstock length is sometimes shortened by use of a canal, ditch or flume.

e)	**Penstock Diameter:**	The average nominal diameter of the penstock in millimetres.
f)	**Turbine Type:**	The turbine may be either a Pelton, Turgo, Crossflow, Francis, Axial (propeller), or Other.
g)	**Hydrology:**	Hydrology can be done to varying degrees depending on the site and background information available. The range in order of complexity includes: 0) No hydrology; 1) Regional analysis 2) Correlative; 3) Gauged records Additional information is provided in Section 2.7.
h)	**Cost:**	The reported cost of the project in thousands is shown. Where owner's labour is reported, the hours are multiplied by $15/hour to provide an approximate cost. Small projects built in such a manner would be considerably less expensive than contractor built projects. Costs from older projects can be related to present day using the cost indices of Table 2.3.
i)	**Intake Type:**	The components of the intake are listed by the first letter of the feature, such as Concrete, Steel, Gabion, Wood or Earth construction, Trash rack, Fish Passage, Heaters, Lake, Dam, Sidestream inlet, Valve, Air vent, Multiple creeks or sources, Other features.
j)	**Facilities:**	The facilities at the power plant are listed in a standard order as follows:

No. of Spaces	DESCRIPTION
	Penstock (up to two types described)
4	- Above or Below ground -Steel, Plastic, Wood, Concrete Fibreglass, Asbestos, Flume or canal, Tunnel.
	Powerhouse
3	- Frame, Steel Concrete, Block, Log Timber, Plywood, Rubble masonry **store)** - Crane - Concrete, Wood or Dirt floor.
	Generator
4	Rotational Speed (Revolutions per minute)
3	Voltage output (kilovolts)
	Transmission Line
1	- Above or Below ground
3	- Kilovolts of transmission line
	Back-up Power
1	Diesel, Gasoline or Hydro (grid) or ______ (none)
	Visitors
1	Visitors are welcome to inspect the project with prior arrangements with the owner.

k) **Height:** Height of dam in metres.

l) **Status:** Project status can be Abandoned, Under Construction, Operating, Studied only, Proposed or on Hold (often while awaiting funding approvals) or Not in service.

m) **Information Source:** Project information originates from Water Licence files, Consultants' files, Manufacturers' files, Personnel communication and research data and owner's information from the Questionnaire or otherwise.

A **Reference Number** is also assigned to each record for this publication only to provide a sequential listing and for mapping and cross reference purposes. Reference numbers are in ascending order keyed to ascending Water Licence Numbers.

2.2.3 Using Operating Systems Listings

The purpose of the Operating Systems Listings is to provide as much information as possible on the existing small hydro power projects. The information can be used in a number of ways such as:

a) Finding projects which are nearby to an area of interest, to assist with the design of new projects.

b) Finding projects of specific types or sizes which can assist with design of similar projects.

c) Determining if streams are under-utilized or fully committed for existing projects.

d) Monitoring the water resource use in the interest of research.

e) Combining operating systems information with the study information listed in Section 6 and 7 may help to reduce unnecessary study repetition.

f) Combining operating systems information with the water licence and dam information of Sections 9 and 10 may lead to improved utilization of existing water resources.

Section 11 describes how to manipulate the data base on the computer. All of the operating projects are grouped by size and plotted on Map 1, using the 3 digit Reference Number. The Operating Systems are listed in Section 3.

2.3 CASE STUDIES

There are 19 case studies presented in Section 4 covering a range of project sizes. Projects in each of the 5 - 10 kW, 10 - 50 kW, 50 - 150 kW, 150 - 500 kW and 500 - 20,000 kW size ranges are provided. The case studies do not duplicate any previous studies sponsored by Energy Mines and Resources Canada. The projects are presented in a narrative style with a data summary within each section, and have photos and maps to demonstrate particular features. The information in the data summary table is also contained in the database and the case studies are plotted on Map 2.

Case study information was obtained in a variety of ways. Contact with owners, contractors and consultants was used to supplement basic data which was available elsewhere in the study. Some personal site visits were made and other information was obtained from file research.

Case studies can prove to be very useful to a prospective small hydro developer. Ideally, every project built should have a case study written for it to share the often unique experiences encountered during a development. In the case studies of Section 4 particular emphasis has been placed on design innovations, construction problems and solutions, and operating experiences and size and geographical distribution. The nature of small hydro is that almost every situation is unique in some way, so covering all possibilities is difficult, especially because of the large range in project sizes spanned. However, the cases that are examined by an individual developer will better prepare him for the new problems at his own site.

2.4 HISTORICAL PROJECTS

Historical small hydro projects are described in the publication because of the role small hydro power has played in the development of British Columbia. Beginning in the 1890's hydro power projects (there was no such thing as "small" hydro power) began to be built for mines, canneries, municipalities and forest companies. There was extensive use of local materials (mainly wood) and there was little heavy equipment to assist with construction. While modern materials and methods can be of great assistance, the point is proven that simpler methods will still work.

The historical projects in Section 5 are described in a narrative style with some tabular information and are located on Map 2. Information retrieval ranged from published sources to personal contacts. Some of the projects which are listed as Operating Systems in Section 3 are actually historical, because the project has been abandoned while the water licence maintained in good standing. Several references dating back to 1915 proved to be excellent sources of descriptions and photos.

Historical project descriptions are useful because the variety of projects is indicative of the ways in which small hydro power projects can be constructed and the energy put to use. The design and construction innovations (and mistakes) can be used to improve designs of future projects. In addition, the knowledge that a plant was successfully located on a stream may lead to a project being rebuilt on the same or a similar location, or under similar conditions.

2.5 FEASIBILITY STUDIES

Feasibility studies have been performed by many consultants in British Columbia for specific hydro power sites. In most cases an individual or organization has contracted the consultant to study an area, provide hydrology information, estimate loads, determine optimal plant sizes and provide cost estimates with varying degrees of detail and accuracy, based on a site visit. Feasibility studies are usually combined with preliminary design and are generally the last step before committing to the larger expenses of construction.

The sources of information for most feasibility studies listed are the consultants' themselves, through a questionnaire that was sent to 16 consultants with known experience in small hydro power. It should be noted that while about 38 projects or areas have been studied, only about 20% of the projects have been completed or are under construction. The majority of small hydro power projects (the smallest sizes) as evidenced by the replies from plant owners do not involve formal feasibility studies, but have been built using the advice of other owners, rural "how to do it" publications and trial and error.

This approach has been made feasible because the cost risks are lowered with the use of used equipment and substantial low cost labour.

The feasibility information itself is presented in a spread sheet in Section 6 and contains the Plant Name, Owner, Stream Name, Capacity, Flow, Date (of study), Head, Penstock Length, Penstock Diameter, Turbine Type, Degree of Hydrology, Project Cost, Status, and Information Source, are shown on Map 2. The additional categories of Map Location and Precinct are included on the computerized database. The information can serve several purposes to an individual interested in developing small hydro. Project parameters will lead to a quick estimate of the components required without actually designing them, for it is likely that amongst the list there will be similar projects as the one contemplated by a developer. The listings will also indicate the source of hydrological and design information pertinent to an area, which may help to economise and accelerate the design process.

2.6 PREFEASIBILITY STUDIES

Information on prefeasibility studies was requested from the same organizations as for feasibility studies. The questionnaire format was identical. The major difference is that prefeasibility studies involve lesser amounts of detail in hydrology, component design and costing. In most situations, if the results of a prefeasibility study are attractive, the work will be followed by a feasibility study or investment report, leading to final design and construction if the economics are still favourable. However, even if a project is economic it may still not be financeable; depending on individual circumstances.

The prefeasiblity study category also includes some broad based regional studies, which were done for the purpose of resource evaluation without specific loads in mind. The level of detail is less than a normal prefeasibility study, involving map analysis, usually at 1:50,000 scale and regional hydrology. Examples include:

- ***Small Hydro Technology and Resource Assessment** (Sigma, 1982) over 600 sites from 100 kW to 20 MW which could be connected to the integrated grid and remote utility diesel systems. (See condensed listing in Section 7 as Table 7.1.5 for Reference No. E37).

- *Micro Hydro (Crippen, 1980) catalogues over 70 hydro sites near remote communities.

- Water Powers 1954 (Water Resources Branch) Larger developed and undeveloped hydro power sites in BC. (Sample page shown)

- Water Powers (Commission of Conservation 1919) Lists of undeveloped hydro power resources of all types. (Sample page shown)

- *Power Resource Study (Acres, 1981) over 60 Sites suitable for development for West Kootenay Power and Light.

- ***Undeveloped Power Sites in British Columbia** is an unpublished listing of some 435 sites (edited to those sites less than about 20MW) known to the Water Resources Branch (now Ministry of Environment) compiled by Earl Anthony in 1963. (See Section 7, Reference No. E50, Table 7.1.7).

*The nature and number of sites in the above publications precludes their direct inclusion in the database, but the sites are listed in the computer sub files for reference purposes and a sample page is provided as Table 7.1.5. The location map on Table 7.1.4 indicates the number of sites in each region contained in the Technology and Resource Assessment. Another publication, Water Power Listings, Undeveloped Sites in British Columbia (1961) contains extensive information and a sample page is shown as Table 7.1.6.

The information listed in Section 7 and shown on Map 2 will have the same use as the Feasibility Studies, but will require further refinement prior to project construction.

2.7. HYDROLOGICAL INFORMATION

2.7.1 Introduction

Hydrological information takes many forms, and most forms of information, especially unprocessed data, require a considerable amount of space to be presented. This chapter does not present detailed information which could be used for design, but it does present retrieval data whereby the information relevant to a project or stream can be quickly found, beginning with references in Section 8.

The information is in two forms. Hydrometric station information refers to streamflow gauge data, which consists of unprocessed flow readings. Hydrological Assessments refer to cross referenced information from other sections of the data base, namely Operating Systems, Case Studies, Historical Summaries, Prefeasibility Studies and Feasibility Studies.

2.7.2 Hydrometric Station Information

(Information from the Water Resources Branch of Inland Waters Directorate, Environment Canada)

Information from the hydrometric stations is provided at the end of this Section and in the map pocket. Stream flow information is not included on the computerized data base package because there is no need for additional cross referencing and the data is already in a suitable format for use. The presence of a stream gauge on a creek is significant, not only for the value of the hydrological information available, but as an indicator of past and present activity on a stream which could influence the suitability of hydro power development.

The tabular information in the report consists of lists extracted from the Surface Water Data Reference Index with the following categories, listed both in order of stream gauge number, and alphabetically by stream name, to provide a complete cross reference with Map 4 and Map 5.

Station Number

The number, such as 08MF005, is the gauge reference number used by the Water Survey of Canada to identify the gauge. 08 means the gauge is in the Pacific drainage region; MF means the sub-basin, in this case parts of the lower Fraser River basin; and 005 is the gauge number within the sub-basin. The number uniquely defines a stream gauge site and if data were recorded in intermittent years and/or equipment changed, the number remains the same. The number will be found in one of the enclosed water survey maps.

Name

The stream name is not a unique label as many common names are repeated throughout British Columbia. Examples with gauges include Trout Creek (2 locations) and Rock Creek (2 locations). Other streams have several gauges throughout their reaches, so the Inland Waters Directorate uses locators such as "at", "near", "below", "above" plus a local name to define where a gauge is.

Page

The Page number refers to the page in the Surface Water Data Reference Index (1983 Edition) in which a summary of gauge parameters for the stream gauge site may be found. Detailed flow readings may be found in the Historical Streamflow Summary. Historical summaries are organised by province and are published by Environment Canada. Each stream has mean monthly and annual flows listed for the period of record. Details of the stream location and history are also shown. Information on daily flows is also available for active gauges in annual editions covering one year's records. Tapes contain the entire historical records on a daily basis and a user with access to computer mainframes can take advantage of the information by contacting Environment Canada. Examples of the types of data available are found in Section 8.

Use of Information

The information presented from Environment Canada can be used to assist in the hydrological analysis of a stream for power purposes. Most users will have a location of interest, which they can inspect on the Active and Inactive Hydrometric station maps to find the gauge number. The gauge number found in the index will correspond to a name and cross reference to the Historical Streamflow Summary which can form the basis of hydrological analysis. If no gauges are found on the stream of interest, nearby streams in similar basins can be used and the reader can perform some of the hydrological techniques explained in the Small Hydro Design Manual, or utilize the **"Hydrologic Design Methodologies for Small-Scale Hydro at Ungauged Sites"** study results, available from EMR or Environment Canada.

2.7.3 Hydrological Assessments

Hydrological information is not contained within the data base, but many of the referenced projects required some degree of hydrology assessment to be used in their study and design. If such information was used it is shown in these listings and cross referenced to the source as shown in the headings below.

Reference Number

A reference number which indicates where in the data base the hydrological information originated, either an operating system, case study, historical project, feasibility study or prefeasibility study.

Stream Name or Source

The stream or lake where the reference project is located. Note that where similar names occur, the user can refer to the other sections of the data base so that uncertainty is eliminated. This category can be sorted alphabetically to assist with data searching.

Latitude/Longitude: Geographic coordinate of the operating system or study area.

Precinct

Precincts are the Water Management Branch subdivisions for drainage areas. They are a convenient data category, because they cover relatively small geographic zones which are more likely to be hydrologically similar. The listings by precinct can be grouped so as to assist in finding which hydrologic information exists for each zone of interest. Precincts are shown on Map 3 and a reference list for correlating the precinct by name and number is shown in Table 2.5.

Hydrology (Level of Information)

The level of information shown refers to the degree of hydrological investigation performed. This allows the data base user to select which hydrological information will be the most useful to his project. The information levels consist of:

0. **None** - Many operating systems used no hydrological investigation and are not listed in the hydrology section. All feasibility and prefeasibility studies are listed because hydrology to varying degrees was always necessary.

1. **Regional** - Information is based on regional rainfall and runoff patterns and could be applied over a wide area.

2. **Correlative** - Information is based on actual flow data from adjacent stream basins, correlated to the basin under study.

3. **Gauged** - Information based on long or short term records on the stream under study.

4. **Computer Package** - A hydrological computer package sponsored by Environment Canada and Energy Mines and Resources Canada will allow anyone with basin geographical information to simulate the hydrology of any stream in BC including peak flows, mean flows, energy availability at different installed capacities and flow duration information.

The information is first found in the listings in Section 8 or the computerized data base and the reference number is used to find the data for the location required, either as an operating system, case study, historical description or feasibility study. Note that some projects could appear in several categories but their hydrology may be the same. There is usually enough information in the listing to lead to the source of the hydrological information, which can form the basis of design.

Information Source

This category allows the user to find the source of further informaton on a locale. The source of background hydrology is listed as either Consultant or Questionnaire from the owner. The list of Consultants is found in Table 6.1.

2.8 WATER LICENCES

Water licence listings are provided in Section 9 and with the database. There are about 37,000 active water licences of all types in British Columbia, so the main problem was to condense the list into the most useful categories for small hydro power development. These remaining listings offer no guarantee of suitability for small hydro power, for by the nature of the use for the water they may preclude small hydro power development. Nevertheless they may offer some opportunities for development that more detailed investigation could determine.

The information was transferred directly from water licence files onto the database. The pre-selection criteria eliminated many of the licences as follows:

- Small domestic systems eliminated
- No flows less than 100,000 gpd provided (equivalent to 1 kW at 100ft head)
- Existing hydro power shown in Section 3
- Existing storage shown in Section 10
- Water licences are issued in 37 purpose codes. The codes selected as being useful are indicated on Table 2.2.

The remaining 1884 water licences are presented in categories which are the same as the water management branch computer files, namely: Water licence number, owner, stream name, map location, priority, precinct, number of purposes, purpose, quantity, units. Map 3 shows the number of selected water licences in each precinct.

The information can be used in the following ways:

- a developer can see if any major licences are under-utilized, possibly permitting hydro power development on the stream or off the water supply line;
- the developer with plans for a stream can see if there are any conflicts in use.

Note: Because the list provided does not show all water licences, and because new water licences are always being applied for, the developer is advised to check with a regional water management office for existing licences of all types prior to starting detailed work.

2.9 DAMS AND FLOW REGULATING DEVICES

The final information listing covers dams and flow regulating devices and is presented in Section 10. Dams have separate water licences under the Purpose Code 08A-Storage while the water taken from the reservoir is licensed for its direct purpose, which could include domestic, irrigation, power or any of the industrial uses. Each separate use of water is supposed to be licensed in the appropriate category, even though the water may come from the same source and pipeline. Many of the small hydro projects listed have storage licences just one numeral different than their usage licence.

The information on dams comes from two sources. Water licence files provided the basic list of 1907 storage sites, listed with the categories of: Water licence number, owner, stream names, map location, priority, precinct, number of purposes, purpose, quantity and units. The other information came from regional offices where dam inspectors are based. These offices provided additional descriptive information based on file data, such as dam height, type of construction, facilities, intake type and status. A few unlicensed dams are also included which although inspected are not part of the computer listings initially transfered to the database. The information requested from regional offices was limited to sites greater than 100 acre feet of storage, where some potential was apparent. Interest has been expressed by many of the regional offices in using this data base to update their own records, so the possibility exists that in future more information, which is presently in files as hard copy, will become available on disk.

Dam information is provided in the publication to broaden the scope of power development opportunities. In eastern Canada and the US many small hydro plants have been retro-fitted to existing dams and have provided the basis for much of the small hydro industry there. While economic and geographical conditions are different in British Columbia, prospective developers should look for dams which have more storage capacity than required, and for dams which can have hydro generating equipment incorporated in the existing outlet facilities or associated pipelines. Dams can also be significant as flow regulators to make downstream development more feasible because peak flows are controlled and low flows supplemented. The number of dams in each precinct is shown on Map 3.

2.10 MAPPING

Most of the existing or potential small hydro projects listed in the publication, the exception being Sections 9 and 10, are shown on maps in the pocket at the end of the listings. The maps are at 1:2,000,000 scale and serve to locate projects, licences, case studies, historical information, and feasibility studies. Hydrological information can be placed in a general geographical zone by referencing Section 8. The maps can be used to locate projects which are listed by their reference number. By using the map as a starting point, projects which are in a geographical zone of interest can be located. Legends on the maps explain the symbols used.

The maps are organised as follows:

Map 1: Existing small hydro power projects and licences. (to 1985)

Map 1A: Existing small hydro power projects and licences. (1986-1989)

Map 2: Case Studies, Historical Descriptions, Feasibility Studies and Prefeasibility Studies.

Map 3: Precinct boundaries, water licences per precinct, dams per precinct.

Note: Map 3 can be used to find areas of general interest and use the precinct code in the computer database to find potential sites, existing sites, water licences and dams located in each precinct. This will quickly narrow a data search into a manageable number.

Map 4: Active Hydrometric Stations provided by Environment Canada and showing basin boundaries.

Map 5: Inactive Hydrometric Stations provided by Environment Canada.

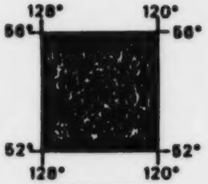
Note: Maps 4 and 5 will be the starting point for initiating an independent hydrological investigation of a site. Maps are not included, but may be obtained from Energy, Mines and Resources Canada upon request

TABLE 2.1

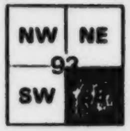
MAPPING DESIGNATIONS

INTRODUCTION TO THE
NATIONAL TOPOGRAPHIC SYSTEM OF MAPPING

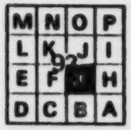
The whole of Canada is divided into primary map quadrangles, each 4° latitude by 8° longitude **93**



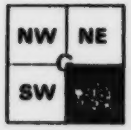
Each primary quadrangle is quartered into maps of the 1:500 000 series, named respectively NE, NW, SE, SW. These maps are shown on key 6 thus **93SE**



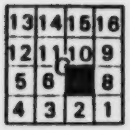
The primary quadrangle is further subdivided into sixteen maps, lettered from A to P, denoting maps of the 1:250 000 series. These maps are shown on key 5 thus **93G**



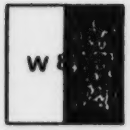
Each lettered quadrangle may be quartered into maps of the 1:125 000 or 1:100 000 series. These maps are shown on key 4 and key 4A thus **93G/SE**



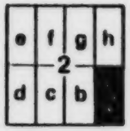
Throughout the province each lettered quadrangle is subdivided into sixteen maps numbered from 1 to 16, denoting maps of the 1:50 000 series, shown on key 3 thus **93G/7**



The earlier publications of the numbered series are divided into East and West halves, also on key 3, taking the form thus **93G/8E**

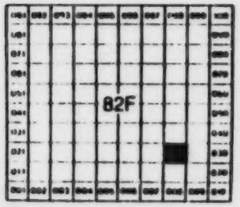


In the densely populated areas surrounding Victoria, Vancouver and Kamloops, 1:50 000 maps may be further divided into eight maps lettered from a to h, denoting maps of the 1:25 000 series. Keys are available upon request **92G/2a**



INTRODUCTION TO THE
BRITISH COLUMBIA GEOGRAPHIC SYSTEM OF MAPPING

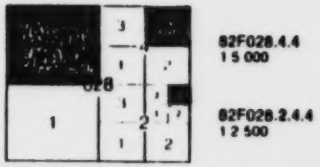
The B.C.G.S. subdivides each lettered quadrangle into one hundred mapsheets numbered 001 to 100, denoting maps of the 1:20 000 series. Available mapping is shown on key 13A thus 82F.028



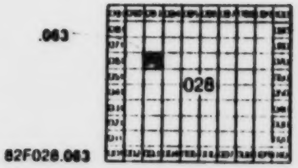
Each 1:20 000 quadrant can be..

-quartered into maps in the 1:10 000 series thus............................ 82F028.3

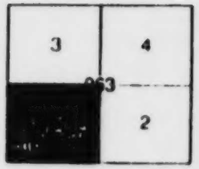
-each 1:10 000 can be further quartered, and quartered again, into mapsheets of the 1:5 000 and 1:2 500 series (respectively)....



-subdivided into one hundred mapsheets in the 1:2 000 series thus............... 82F028.063



-each 1:2 000 quadrant can be quartered into mapsheets in the 1:1 000 series thus. 82F028.063.1



Source: BC Map and Air Photo Catalogue

TABLE 2.2

WATER RIGHTS LICENCE DATA PREPARATION

PURPOSE-USE CODES

Purpose-Use	Code	Normal Unit of Quantity	Alternative Acceptable Unit of Quantity	Potential for Small Hydro
Clearing Streams	10A	Any Valid		
Conservation				
Stored Water	11A	AF		
Used Water	11B	CS	AF	
Fish and Wildlife	11C	Any Valid		
Conveying		Any Valid		
Domestic	01A	GD	AF	
Fluming	13A	CS		
Hydraulicking	14A	CS		*
Industrial				
Pulpmills	02A	CS	GD	*
Sawmills	02B	GD	CS, AF, TF	*
Cooling	02C	GD	CS	*
Hotels	02D	GD		*
Ponds	02E	Any Valid		*
Watering	02F	AF		*
Other	02G	Any Valid		*
Irrigation				
By Municipalities etc.	03A	AF	CS	*
By Other	03B	AF	GD	*
Land Improvement	04A	Any Valid		
Lowering Water	15A	Any Valid		*
Mineral Trading				
Bottled	09A	GD		
Bath	09B	GD		
Mining				
Hydraulic	05A	CS	GD	*
Washing Coal	05B	CS	GD	*
Processing Ore	05C	GD	CS, AF	*
Generating Power	05D	CS		*
Cooling Engines	05E	GD		*
Permits over Crown Land				
Plant/Damsite	06A	A.		
Conduit	06B	A.		
Land Flooding	06C	A.		
Power Flooding	06D	A.		
Other - ie. spillway, Pumphouse site, setting pond access road reservoir	06E	A.		
Power	07A, B, C	CS	AF	*
River Improvement	16A	M.		
Storage	08A	AF		*
Waterworks				
By Municipalities etc	00A	GD	CS, AF	*
By Other	00B	GD	CS, AF	*

TABLE 2.3

CONSTRUCTION COST INDICES

Year	Index	Year	Index	Year	Index
1910	96	1936	206	1962	872
1911	93	1937	235	1963	901
1912	91	1938	236	1964	936
1913	100	1939	236	1965	971
1914	89	1940	242	1966	1019
1915	93	1941	258	1967	1070
1916	130	1942	276	1968	1155
1917	181	1943	290	1969	1269
1918	189	1944	299	1970	1385
1919	198	1945	308	1971	1581
1920	251	1946	346	1972	1753
1921	202	1947	413	1973	1895
1922	174	1948	461	1974	2020
1923	214	1949	477	1975	2242
1924	215	1950	510	1976	2401
1925	207	1951	543	1977	2577
1926	208	1952	569	1978	2776
1927	206	1953	600	1979	3003
1928	207	1954	628	1980	3237
1929	207	1955	660	1981	3603
1930	203	1956	692	1982	3879
1931	181	1957	724	1983	4129
1932	157	1958	759	1984	4176
1933	170	1959	797	1985	4194
1934	198	1960	824	1986	4250
1935	196	1961	847		

Source: Engineering News Record, March 19, 1981.

Note: These cost indices are based on blended materials and labour averages from 20 US cities and they should only be used to approximate historical trends, thereby providing an indication of whether reported project costs would be considered economic in today's market place.

TABLE 2-4

SMALL HYDRO DATABASE:FILE CONTENTS
PROGRAM:EMR1
DATE:MARCH 31.1989

	REFERENCE NUMBER	PLANT NUMBER	WATER LICENCE NO.	NO. OF LICENCES	PLANT NAME	OWNER	STREAM NAME	RESERVOIR NAME	MAP LOCATION	LAT./LONG.	CAPACITY(KW)	PRIORITY(YR/MO/DA)	PRECINCT	NO. OF PURPOSES	PURPOSE	QUANTITY(STORAGE/FLOW)	UNITS	DESCRIPTION	DATE	HEAD	PENSTOCK LENGTH	PENSTOCK DIA	TURBINE TYPE	HYDROLOGY	COST(1000'S)	INTAKE TYPE	FACILITIES	HEIGHT	STATUS	INFO SOURCE
FIELD WIDTH	10	4	7	2	28	25	25	25	18	10	8	8	3	2	3	9	1	2	6	3	5	4	2	2	5	15	20	3	3	2
OPERATING SYSTEMS	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0		0	0	0	0	0	0	0	0	0	0	0	0
233	S	S	S		S	S	S		S		S		S			S														
CASE STUDIES	0	0	0		0	0	0	0	0	0	0	0	0			0	0	0	0	0										0
19	S						S		S		S		S																	
HISTORICAL INFO	0	0	0		0	0	0	0	0	0	0		0			0	0	0	0	0										0
20	S		S				S		S		S		S																	
FEASIBILITY STUDIES	0				0	0	0		0	0	0		0			0	0	0	0	0	0	0	0	0	0				0	0
38	S						S		S				S			S														
PREFEASIBILITY	0				0	0	0		0	0	0		0			0	0		0	0	0	0	0	0	0				0	0
47	S						S						S			S														
HYDROLOGICAL INFO	0						0			0			0											0						0
94	S						S						S																	
WATER LICENCES			0	0	0	0	0	0	0	0		0	0	0	0	0	0												0	
2103			S			S	S		S				S			S														
DAMS & FLOW REG'N		0	0	0	0	0	0	0	0	0		0	0	0	0	0	0		0								0	0	0	
2177			S			S	S		S				S			S														

0=VALID FIELDS
S=KEY FIELDS (SORTING)

TABLE 2.5

REGION, DISTRICT AND PRECINCT CODES

Code	REGION DISTRICT Precinct	Location
01	**VANCOUVER ISLAND**	
01	ALBERNI	
01A	Alberni	4930/12600
01B	Quatsino	5030/12730
17	NANAIMO	
17A	Nanaimo	4915/12530
17B	Sayward	5020/12630
17C	Courtenay	4945/12530
17D	Coast	5100/12600
31	VICTORIA	
31A	Duncan	4840/12350
31B	Victoria	4830/12400
31C	Shawnigan	4840/12330
02	**LOWER MAINLAND**	
02	NEW WESTMINSTER	
20A	Abbotsford	4905/12220
20C	Chilliwack	4905/12140
20D	Cloverdale	4905/12240
20E	Coquitlam	4925/12245
20F	Fraser Delta	4910/12310
20G	Hope	4925/12115
20H	Kent	5000/12230
20I	Mission	4930/12215
20J	Pitt Lake	4930/12235
20K	Ruby	4930/12130
20L	Spuzzum	4945/12130
20M	Skagit	4910/12100
20N	Keefer	5000/12145
29	VANCOUVER	
29C	Howe Sound	4950/12310
29D	Jervis	5030/12430
29E	North Vancouver	4925/12300
29F	South Vancouver	4915/12310
29G	Texada	4945/12430

Code	REGION DISTRICT Precinct	Location
03	**SOUTHERN REGION: THOMPSON NICOLA**	
02	ASHCROFT	
02A	Ashcroft	5030/12115
02B	Bonaparte	5110/12125
02C	Botanie	5025/12130
02D	Bridge River	5045/12230
02E	Cornwall	5040/12130
02F	Deadman	5105/12050
02I	Lytton	5000/12145
02J	Pavillion	5115/12200
02L	Stein	5015/12155
13	KAMLOOPS	
13A	Adams River	5130/11915
13B	Barriere	5120/12110
13C	Mahood Lake	5200/12000
13D	Ducks	5030/12000
13E	Grand Prairie	5030/11935
13F	Kamloops	5035/12030
13G	North Branch	5145/11930
13H	North Thompson	5050/12010
13I	Seymour	5115/11855
13J	Tranquille	5050/12040
13K	Sicamous	5100/11845
21	NICOLA	
21A	Lower Nicola	5020/12045
21B	Merritt	5000/12100
21C	Spences Bridge	5015/12110
21D	Upper Nicola	5010/12015
05	CARIBOO	
05A	Chilcotin	5200/12330
05B	Clearwater	5150/12050
05C	Dog Creek	5135/12220
05D	Quesnel River	5230/12110
05E	San Jose	5150/12130
05F	Bella Coola	5200/12700
26	QUESNEL	
26A	Nazko	5230/12330
26B	Cottonwood	5300/12300

Code	REGION DISTRICT Precinct	Location
04	**KOOTENAY**	
06	CRANBROOK	
06A	Cherry Creek	4945/11550
06B	Cranbrook	4930/11540
06C	Gold Creek	4910/11530
06D	Moyie	4920/11555
06F	Skookumchuck	5000/11610
06G	St Mary	4945/11620
06J	Wardner	4920/11525
08	FERNIE	
08A	Bull River	4945/11515
08B	Fernie	4930/11500
08C	Flathead	4910/11430
08D	Fort Steele	4945/11535
08E	Michel	5000/11450
08F	Rock Creek	4920/11515
08G	Sheep Creek	5000/11535
08H	Tobacco Plains	4915/11455
08I	Wasa	4945/11545
10	GOLDEN	
10A	Beaver	5140/11730
10B	Donald	5130/11700
10C	Fairmont	5030/11530
10D	Golden	5120/11635
10E	Kinbasket	5210/11800
10F	Spillimacheen	5055/11645
10G	Windermere	5035/11625
14	KASLO	
14A	Kaslo	4950/11655
14B	Lardeau	5030/11650
14C	Trout Lake	5030/11720
18	NELSON	
18A	Burton City	5000/11800
18B	Camborne	5050/11740
18C	Castlegar	4940/11755
18D	Crawford Bay	4940/11645
18E	Creston	4915/11635
18F	Halcyon	5030/11755
18G	Little Slocan	4940/11745
18	NELSON (Cont..)	
18H	Nelson	4930/11715
18I	New Denver	5015/11725
18J	Procter	4940/11700
18K	Rossland	4910/11745
18M	Slocan City	4950/11725
18N	Slocan Junction	4930/11730
18O	Waneta	4910/11730
18P	Ymir	4920/11715
27	REVELSTOKE	
27A	Arrowhead	5045/11800
27B	Downie	5120/11820
27C	French Creek	5145/11830
27D	Illecillewaet	5115/11750
27E	Revelstoke	5100/11815
03	**SOUTHERN REGION: OKANAGAN**	
11	GRAND FORKS	
11A	Cascade	4910/11815
11B	Grand Forks	4930/11830
11C	Greenwood	4915/11845
11D	McKinney	4910/11900
11E	Westbridge	4930/11855
07	PENTICTON	
07A	Fairview	4915/11930
07B	Penticton	4930/11935
07C	Summerland	4946/11955
23	PRINCETON	
23A	Hedley	4915/12010
23B	Keremeos	4910/11945
23C	Princeton	4930/12030
23D	Tulameen	4940/12050
30	VERNON	
30A	Kelowna	4950/11915
30B	Lumby	5030/11830
30C	Okanagan Centre	5010/11855
30D	Peachland	5000/11940
30F	Vernon	5025/11930
30G	Mara	5035/11855

Code	REGION DISTRICT Precinct	Location
05	**NORTHERN REGION: SKEENA**	
03	ATLIN	5830/13130
12	HAZELTON	
12A	Burns Lake	5330/12600
12B	Cedarvale	5440/12800
12C	Smithers	5530/12920
25	PRINCE RUPERT	
25A	Kitimat	5330/12900
25B	Queen Charlotte	5320/13210
25C	Terrace	5530/12920
05	**OMINECA-PEACE**	
15	LIARD	5845/12330
22	PEACE RIVER	
22A	Dawson Creek	5530/12100
22B	Fort St John	5645/12130
24	PRINCE GEORGE	
24A	Arctic	5720/12530
24B	McBride	5300/11930
24C	Parsnip	5530/12430
24D	Upper Fraser	5350/12130
24E	Vanderhoof	5430/12350

3. OPERATING SYSTEMS LISTINGS

The following operating systems listings include all of the existing licences for hydro power plants up to 20,000 kW. Water licence file information is listed from the categories **"Water Licence"** to **"Units"** inclusive. Information retrieved on operating hydro plants through questionnaires or other research is listed in the remaining categories on the right hand pages. The listings are in order of ascending water licence number and are plotted by Reference Number on Map 1. The "Capacity" category is summed, indicating the size of the licensed resource. Note however that the actual resource is larger because water licence files do not all show capacity, and responses were not obtained for all licensed projects.

An example of the "expanded screen" printouts covering an "Edit" screen, "Intake" and "Facilities" is shown in Section 11.4 following. Further information on Operating Systems Listings is shown in Section 2.2.

Operating Systems are also listed by Source Name, Owner's Name and Plant Name, each with a Reference Number. Use the Reference Number to find more detailed information in the first set of listings.

NOTE: "Operating Systems" include licenced capacity (not constructed), systems under construction, systems in full or part time operation and abandoned systems where the water licence has been maintained. (equipment and facilities may or may not be present)

"Operating Systems" do not include systems with pending licences or unprocessed applications.

3.1 OPERATING SYSTEMS
LISTED BY REFERENCE NUMBER

Ref.#	Water Lic.	Plant Name	Owner	Source	Map Loc.	Lat/Long
1	3491C	MCGUIGAN CREEK PLANT	SLOCAN RAMBLER MINES LTD.	MCGUIGAN CR		5001/11713
2	3494F	FLETCHER CREEK (SILBAK)	BRITISH SILBAK PREMIER MI	FLETCHER CR	104B/01	5603/13002
3	3697F	SLOCAN STAR PLANT	DICKENSON MINES LTD.	CODY CR	82F/14	4958/11713
4	3338F	BEACH POWERHOUSE	COPPER BEACH ESTATES	BRITANNIA CR ET AL	92G/11	4938/12310
5	3711F	TUNNEL POWERHOUSE	COPPER BEACH ESTATES LTD.	BRITANNIA CR	92G/11	4937/12306
6	4003F	GRANITE FALLS CREEK	HUB CONTRACTING LTD.	GRAND CR	92G/07	4927/12252
7	4062F	CASCADE CREEK	BRITISH SILBAK PREMIER MI	LESLEY CR	104B/01	5603/13002
8	4171F	ABERFELDIE	B C HYDRO	BULL R	82G/06	4930/11520
9	4896F	WOODFIBRE PLANT	WESTERN PULP LTD	WOODFIBRE.MILL, SYLVIA CR	92G/11	4940/12316
10	5644F	ELKO PLANT	B C HYDRO	ELK R	82G/06	4920/11507
11	6159F			SWEETWATER CR		
12	7147F	ALOUETTE	B C HYDRO		92G/08	4924/12218
13	7449F			IRON L		
14	8373F		NEWMAN JOHN A	LEASK CR	92.K.045	
15	8715F		CAIRNS ALAN A & PATRICIA	CROASDAILE CR	5150A	
16	8804F	ELBOW CREEK PLANT	PRETTY, MRS. ROWENA.	ELBOW CR		4915/12157
17	8806F		PRETTY, MYRNA	ELBOW CR		
18	9350F		JONES DAVID C	OPPENHEIMER SPR	101	
19	9482F	COUGAR LAKE	SURF INLET POWER CO LTD	COUGAR L	103H/02	5302/12853
20	9756F	SHUSWAP FALLS PLANT	B C HYDRO	SHUSWAP R	82L/07	5018/11848
21	9917F		FELLER HELMUT	SLATER CR	5250D	
22	10186C	FALLS R	B C HYDRO	BIG FALLS R	103H/13	5359/12936
23	10795F		SUMMERS MEARNIE I	HOLMDEN CR	8100D	4920/12302
24	11025F		HALL ARTHUR & MAY	ARBUTUS CR	8795	
25	11063F		PROCTER LEROY	IRELAND CR	8440	
26	11083F		BARTOLOME JECKLIN	SHAW SPR	92I/6W(D)	
27	11976F		JOHNSON.E	SISKA CR		
28	12182F	BUTEDALE CREEK	BURDETT.R F O	BUTEDALE CR	103H/02	5305/12835
29	12364C	STRYEN CREEK	MUNDALL, R.V. & E.J.	STRYEN CR	92I/05	5016/12137
30	12456F		JACOBS ALEXANDER B	SHUTTY CR	3952D	
31	13281F	BROWN MILL	J A BROWN MILL LTD	BROWN CR	103I/04	5402/12951
32	13429F		HUNT J A	MEADE BR & RAM BR	8723	
33	13920F		CAPLE RODERICK	KENYON CR	92.G.041.4.3	
34	14255F	CITY OF NELSON PLANT	CITY OF NELSON	KOOTENAY R	82F/06	4930/11715
35	14293F	CAMP CREEK	COMINCO LTD.,	CAMP CR	104K/13	5845/13335
36	14470F		HERRLING HARRY W & DIANNE	HERRLING CR	5841B	
37	14820C	LILLIAN RUSSELL CREEK PLANT	FRANCIS MILLERD & CO LTD.	LILLIAN RUSSELL CR	92K/07	5016/12458
38	15374F		SCHMIDT REINHOLD V	IRELAND CR	8440	
39	15609C		CURNOW, THOMAS	NICOLA R		
40	16135C		BOARDMAN GEOFFREY J	COLDWELL CR	8100	
41	16392F	RAINBOW CREEK PLANT	MACDONALD RANCH & LUMBER	RAINBOW CR		4905/11503
42	16694F		LAVEROCK DAVID J	GRANT LAKE CR	92B/12(F)	
43	16854F	GOAT RIVER PLANT	WEST KOOTENAY POWER AND L	GOAT R	82F/01	4906/11627
44	17605C	THURSTON CREEK PLANT	GRAY, GEORGE R., DR.	THURSTON CR		4905/12142
45	19150C	SALISBURY CREEK PLANT	MCGEORGE, PAULINE B.	SALISBURY CR	82K/SE	5006/11604
46	20486F		WAITE GLENARD E	QUEENS CR	3955D	
47	20814C		NICKEL ROGER G	HASLAM CR	92.F.060.4.4	
48	21260C		WIDELL ERNEST H	SMALL CR	83.E.002	
49	21418F	RAGING RIVER	RIBCO LEASING LTD. &	RAGING R	92L/06	5023/12714
50	21645C	SPILLIMACHEEN PLANT	B C HYDRO	SPILLIMACHEEN R	82K/15	5055/11625
51	22027C		STORBO RICHARD	S GRIFFITH CR	82.L.099.4.2	
52	22373C		SPARKS WILLIAM F	JESSE LK	103H/NE	
53	22579C		SANDBERG JOHANNE M	GROTTO CR	93A/NW(14-D)	
54	22939C	ARGENTA CREEK PLANT	ARGENTA WATER POWER CO-OP	ARGENTA CR	82K/02	5022/11652
55	23098C	GROHMAN #1 AND #2 PLANTS	WEBB, ROLF	GROHMAN CR		0000/00000
56	23931C		MCKAY, ROY	SITKUM CR		
57	23982C		SMYTH GWLADYS O	SMYTH CR	6973	
58	25246C	WALTER HARDMAN PLANT	B C HYDRO	S CRANBERRY CR	82L/16	5050/11803
59	25306C		WILLIEWIN RANCH LTD	DIVIDE CR	3787	

OPERATING SYSTEMS

Ref.#	Cap	Precinct	Qty	Units	Descr	Date	Head	Penstock L	Dia	Turb	Hydr	Cost	Intake	Ht	Facil	Stat	Info Source
1	60	18I	5.000	Q													
2	380	25C	3.000	Q													
3	200	18I	.840	Q	N	1920	165	3000	450	P	0		WTD	1.8	AW F C03602.2A2.3DV	0	Q
4	6150	29C	+60.000	Q	Y	1905				P	0					A	P
5		29C	10.000	Q	Y	1905	547	4400	1000	P	0		CLDM	10	ASAWW C 6.9A25.H	N	Q
6	81	29E	20.000	Q													
7	320	25C	10.000	Q													
8	5000	08A	351	Q	N												W
9	2587	29D	54	Q	N												W
10	9600	08F	900	Q	N												W
11			1.000	Q													
12	8000	20J	1000	Q													W
13			75.000	B													
14		29D	.370	Q													
15		18D	1.000	Q													
16	25	20H	4.000	Q		1926	51	900	250	P	0	120	CLD		BSBP 0450 A0.1HV	D	Q
17						1926	51	900	300	P	0		CLD		BSBP 0450 A0.1HV	D	Q
18		02D	.400	Q	N	1929	76	426	100	P	0	1.5	WST	0.9	AS F C1400.10A.10 V	0	Q
19	750	25A	167.000	Q													
20	5200	30B	1100	Q	N												W
21		18J	.250	Q													
22	6800	25A	600	Q													W
23	10	29E	1.500	Q	Y	1933	57	240	200	P			CST.TVS	0.5	APASF W1800.11A.11D	0	P
24		31B	.250	Q													
25		30B	3.000	Q													
26		02C	.500	Q													
27																	
28	430	25A	40.000	Q													
29	95	02L	4.000	Q	N	1930	85	600	250	P	1		S		BW C0500.46A2.3 V	0	Q
30		14A	.250	Q													
31		25A	136.800	Q	N	1906	17	30	900	F			WS		AWAW W 550 D	A	Q
32		31A	.250	Q													
33		29D	.500	Q													
34	8995	18N	714	Q	N												Q
35		03	1.220	Q													
36		20G	.030	Q													
37	64	29D	8.000	Q													
38		30B	3.500	Q													
39																	
40		29E	4.000	Q													
41	60	08H	1.000	Q	Y	1928	180	750	200	P	0	20	EDT	1	AS F C0900.2 A.20HV	0	Q
42		31A	.500	Q	N	1956	60	533	150	P	1		CSDL	1.5	AWBWF C0750.20B.20 V	0	Q
43	1280	18E	200.000	Q													
44		20C	2.200	Q	N		50	548	150				CD	1	AP B 6V	U	Q
45	22	14B	10.000	Q													
46		14A	.300	Q	N											D	Q
47		29D	2.000	Q													
48		24B	20.000	Q													
49	1760	01B	4785.000	B													
50	4000	10F	325	Q	N												W
51		27E	4.000	Q													
52		25A	2.000	Q													
53		05D	.500	Q													
54	25	14B	1.000	Q	Y	1958	150	700	150	P		15	WT	.3	BS F C1200.60A.60 V	0	P
55		18H	2.500	Q													
56																	
57		23C	.150	Q													
58	8000	27A	62640	B	N												W
59		13G	1.000	Q													

OPERATING SYSTEMS
LISTED BY REFERENCE NUMBER

Ref.#	Water Lic.	Plant Name	Owner	Source	Map Loc.	Lat/Long
60	25319C		FREDERICKSON HAROLD T	BRUCE CR	92.F.080.1.1	
61	26095C		HOOKER WILLIAM P	CORRAL CR	103P/NE	
62	26270C	CLAYTON FALLS PLANT	BRITISH COLUMBIA HYDRO &	CLAYTON FALLS CR	93D/07	5222/12649
63	26514C	IVAN CREEK PLANT	PRETTYS TIMBER CO. LTD	DEREK CR RONALD CR ETC	92H/12	4932/12146
64	26851C		HOBBS JOHN	MARCHANT CR	92.C.096.3.3	
65	26922C		BOWDEN, ALBERT	BEAVER CR		
66	27260C		BELL GORDON M	EAGLE R	3865	
67	27286C		JACOBSEN EINAR M	BIG LAKE CR	93A/5W(E)	
68	28402C		HUNT ROBERT A	DANEY CR	82KNW	
69	28985C	TREAT CREEK PLANT	DOMAN FOREST PRODUCTS LTD	TREAT CR	92G/NW	4951/12355
70	29102C	TENNENT CR PLANT	WESTMIN RESOURCES	TENNENT CR	92F/12	4935/12539
71	29202C		BOLTON BRUCE N & ELEANOR	EQUESIS CR	8587	
72	29601C		POPOFF EVELYN D	JEAN BR	82M/SW	
73	30055C	THREE VALLEY PLANT	BELL, GORDON	WAP CR	82L/16	5053/11828
74	30700C		JONES W MAY	SILVERDAISY CR	92H/3	
75	30899C		JESTLEY CHARLES S & JANET	LARDEAU CR	4051	
76	32010C		BERUBE JUNE FRANCES	CONROY CR	8233	
77	32513C		PERRY ROBERT P & ROBERTA	CASORSO BR & CASORSO SPR	03PSE	
78	32535C		VAN DYKE CORNELIUS F	NICOAMEN R	92I/6W(D)	
79	33032C		PARKIN MADELENE M	BORTHWICK CR	93A/3E(B)	
80	33501C		DAKIN RICHARD PAUL	MUSSALEM CR	103.I.058	
81	34133C	LOWER BIG BAR CREEK PLANT	C & A MINK RANCH LTD.	BIG BAR CR		5113/12207
82	34209C		CONNOR BRYAN M	CONNOR CR	92.H.031.2.1	
83	34434C	BRETT CREEK PLANT	GREEN BAY EXPLORATION &	BRETT CR		5154/12231
84	35386C		BLACK ELIZABETH A	HILLABY CR	92J/NW	
85	35660C		KNOWLES IVAN M & FLORENCE	COLD CR	4824	
86	36653C		HENNELL PAUL V & MARION	CASPER CR	117	
87	36738C	MCKAY CREEK PLANT	GARDNER, MARIE B.B.	MCKAY CR	93B/13	5259/12337
88	37355C		WRONSKI P/B M	LONE TREE CR	92.G.044.2.4	
89	37358C		FLETCHER ROBERT L ET AL	HINDER CR	92K/2-C	
90	37890C	WALDEN NORTH PLANT	WALDEN NORTH ENTERPRISES	CAYOOSH CR	92I/12	5040/12200
91	38332C	CASS CREEK PLANT	KILDONAN VILLA ESTATES LT	CASS CR		4900/12501
92	39244C		KING JENNY G	CHERRY CR	92N/NE(10-F)	
93	39751C		BROWN CLIVE H & GRACE	CASS CR	92.F.005.2.2	
94	40296C		KLEINSCHROT PAUL	SIX MILE CR	117	
95	40307C		LUNN DAVID J ET AL	ANDERSON SPR	82JNW	
96	40643C		CARSON GORDON T	MCKIRDY CR	83D/NW	
97	42015C		CHERNICK ALICK & BARBARA	DELTA CR	103.I.046	
98	43165F	OCEAN FALLS PLANT	OCEAN FALLS CORP	LINK R	93D/05	5224/12740
99	43168F	TALLHEO PLANT	TALLHEO MARINE LTD.	NIEUMIAMUS CR	93D/08	5224/12647
100	43570C	PORT ALICE PLANT	WESTERN PULP LTD.	VICTORIA L	92L/06	5024/12726
101	45280C		KEELER DONALD E	SWIFT CR	8232	
102	46116C		HORNE RAYMOND J & DELLA I	WADE CR	118	
103	47048C	KILBELLA BAY PLANT	CIP FOREST PRODUCTS	BALBOA CR		5144/12717
104	47053C	JORGENSON CREEK PLANT	KNOLL, ALVIS	JORGENSON CR	93C/08	5221/12407
105	47883C		B A MINES	DEADHORSE CR	92F/1	
106	48336C		VANDERHOEK JAN J & JOANNE	MARBLEHILL CR	5730H	
107	48676C	TRETH CREEK PLANT	MCCALL ENTERPRISES LTD	TRETH CR	82F/NE	5000/12401
108	49528F	HUMMINGBIRD - MARA PLANT	HOHNDORF, INGE H. & ERIC	MARA CR		5006/11901
109	49566C		SEYMOUR GILBERT D & MARY	BUCK CR	107	
110	49645C		SIMOR ANTON	RAMONA CR	92.G.072	
111	49987C	ROARING CREEK	SLIMS EXPLORATION LTD	ROARING CR	092G/14	4956/12325
112	50213C		FOSTER WALTER L	SAND CR	92N/NW(11-A)	
113	50377C		ANDERSON BYRON V & SHEILA	NEHALLISTON CR	3668	
114	50646C		NELSON WILLIAM M & LYNN M	GODWIN CR	93.D.037	
115	50730C		ZUIDEMA CORNELIUS & MARTI	RAMONA CR	92.G.072	
116	50732C		POHLMANN MADELINE	CLEMENS CR	92.G.072	
117	50742C		PARMENTER LOUISE F	CANBY SPR	103.I.087	
118	50746C		BRAINARD RAYMOND	CARVER CR	93B/NW(11-E)	

OPERATING SYSTEMS

Ref.#	Cap	Precinct ↓	Qty	Units	Descr ↓	Date	Head	Penstock L ↓	Dia	Turb ↓	Hydr	Cost ↓	Intake	Ht	Facil	Info Source Stat	↓
60		29D	2.000	Q	N	1958	8.3	24	300	A	0		CD	2.4	AW F W1800.11A2.5DV	0	Q
61		12C	3.500	Q													
62	702	05F	47.000	Q	Y	1962	70	400	750	F	2		CDSTVA	6	ASAWSCC 9002.4A25.D	0	C
63	62	20H	2.000	Q	N	1956	300	420	250	P	0		CD		AS B C0600.22A.22DV	0	Q
64		01A	.420	Q	N	1968	50	180	75	P	0	6.3	TD	4	AP F W1800.12A.126V	0	Q
65																	
66		13K	15.000	Q													
67		05D	2.000	Q													
68		14C	1.000	Q													
69	50	29D	9.000	Q													
70	3060	17C	17	Q	Y	1966	620	2820	550	P	2		CDTVAL	24	BSASSCC 6004.1B4.1DV	0	Q
71		30F	7.000	Q													
72		13A	1.000	Q													
73	150	30E	27.000	Q	Y	1982	33	200	750	0		290	CSTV		BS C C1200.21A7.2DV	0	P
74		20M	.150	Q													
75		14C	10.000	Q													
76		29C	3.000	Q	N	1970	30	50	300	P	0		StD	2.4	AS F C02772.2A2.2 V	0	Q
77		12B	1.000	Q													
78		02I	1.000	Q													
79		05B	1.000	Q													
80		12B	.500	Q													
81	35	02J	3.500	Q													
82		20H	.750	Q													
83		02D	1.500	Q													
84		20H	1.250	Q	N	1982	137	360	150	P	1	25	WD	1	AA F C .24B.246V	0	Q
85		17C	2.000	Q													
86		02D	1.000	Q	N	1966	62	300	50	P	1	1	WDT	0.6	BP F C1800.11A.116V	0	Q
87	30	26A	1.500	Q													
88		29E	.500	Q	N					P						U	P
89		29D	.500	Q													
90	450	02D	120	Q	N												W
91	3	01A	1.000	Q													
92		05A	1.000	Q	N	1977	63	810	200	P	1		EStD	3	BP F C0540.22A2.36	0	Q
93		01A	2.000	Q													
94		02D	1.000	Q													
95		10C	1.000	Q													
96		24B	1.000	Q	Y	1975	56	450	125	P	1	12	WTD	3	BP B C0360.22A.22DV	0	Q
97		25C	1.000	Q													
98	13320	05F			Y												W
99	24	05F	1.000	Q													
100	2000	01B	100.000	Q	N	1953	137	3470	1000	F	3	1000	SStL.puao	1	BS C36006.9A6.9H	0	Q
101		29C	1.500	Q													
102		02D	.500	Q													
103	100	05F	7.000	Q													
104	36	05A	15.000	Q													
105		17A	2.500	Q													
106		20C	1.000	Q	N		10	15		P	0	10	StED	9	A F C A HV	U	Q
107	50	29D	2.500	Q	N	1980	75	300	250	P		40	D	1.5	AS C0900.48A.48 V	0	Q
108	20	30E	1.000	Q	N			200		P	0				R C H	A	Q
109		02D	1.000	Q													
110		29D	.300	Q	N										H		Q
111		29C	1.070	Q	N				550	P	0				AS DV	U	P
112		05A	.750	Q													
113		13C	1.000	Q	N	1980	8	137	250	C		12	StST		AS F 40180.12A.12HV	0	Q
114		05F	.375	Q													
115		29D	.500	Q													
116		29D	.530	Q													
117		25C	6.500	Q	N	1980	8.3	87	355	A	0	25	G	1.5	BA S W12000.2B7.2 V	0	Q
118		26A	2.000	Q													

OPERATING SYSTEMS
LISTED BY REFERENCE NUMBER

Ref.#	Water Lic.	Plant Name	Owner	Source	Map Loc.	Lat/Long
119	50777C		WATSON DAVID G & MARLENE	FROST BR	3865	
120	51069C		HAMMOND RICHARD & JUNE	FRANCIS CR	8100C	
121	51081C		GOERKE RICHARD D	MUDFLAT CR	93.M.023	
122	51104C		CLAYARDS WILLIAM E & CLAR	BANNOCKBURN BR	8793B	
123	51149C		PLEWS GORDON J	BARTHOLDI CR	1170	
124	51161C		REISWIG.R	IVOR CR		
125	51336C		KARAS ANDREW P & CHRISTIN	COLUMBA CR	5883	
126	51513C	BUCK CREEK PLANT	MOHA INVESTMENTS LTD.	BUCK CR	92J/16	5052/12212
127	51898C		KETCHUM J BRUCE & NANCY L	NEMO CR	5502	
128	51992C		BOWELL SUSIE D	SUSIE BR & PERRY CR	5910K	
129	52308C		BRUBAKER DOUGLAS R	OASIS SWAMP	92F/8-6	
130	52353C	PHILLIPPS CREEK	MACDONALD RANCH & LUMBER			4907/11505
131	52516C	GRANVILLE BAY PLANT	LOBEL TIMBER LTD.	LAPPAN CR	92G/13	4950/12400
132	52560C	MILL CREEK PLANT	HALVORSEN, GLADYS M.	MILL CR	103P/01	5506/12807
133	52613C		NIELSEN ERIK G & KAREN	CHARLIE'S CR	82K/SW(4-H)	
134	52682C		HUDSON MATHEW C & DIANA M	VEVEY CR	5502	
135	52835C	KINGCOME PLANT	TSAWATAINEUK BAND	VOGEL CR	92L/16	5100/12610
136	53011C	KLEMTU PLANT	KITASOO HYDRO POWER LTD.	BARON L	103A/10	5238/12832
137	53429C		GARAM CORNELIA M	COLDWELL CR	8100	
138	53439C		MILLS & MENGLER MINING LT	ERNST CR	5502	
139	53507C		SCHEIBER PETER & LINDA &	BOIL CR	92F/16-C	
140	54702C		EINARSON FREDERICK S	GREER CR	92J/10E(B)	
141	55004C		PETERSON WILLIAM F JR	KAREN CR	83.E.011	
142	55303C	HASTY CREEK PLANT	HARLOCK W., RUTKOWSKY J.A	HASTY CR	082F/14F	4956/11722
143	55325C		BURROWS BRUCE & LINDA & S	GLYN CR	92L/11-E(H)	
144	55343C		DOUGAN JAMES C	WHITTAKER CR	92.F.050	
145	55451C		RAINER.CARL	BATTY'S CR		
146	55469C		GALE FREDERICK S	GALE CR	83.E.011	
147	55806C		MURPHY CRAIG P & MARY L	HARTE CR	5501	
148	55843C		SINCLAIR C ROY & BETTY A	WILLIE PHILLIPPS CR	2011	
149	55856C		MCLOUGHLIN MICHAEL G	CONNEL CR	117	
150	55884C	HOEYA HILTON HYDRO	MCLEAN, JAMES B.	GOSSE CR		
151	56020C	NIMMO BAY PLANT	MURRAY, CRAIG	NIMMO CR		5056/12641
152	56052C	LUCILLE LAKE PLANT	FULFORD LUMBER CO. LTD.	CHANCE CR	92G/14	4957/12310
153	56105C	BEALE CREEK PLANT	BEALE CREEK BAY RECREATIO	BEAL CR		5058/11859
154	56614C		KAELBER ROBERT C & MARGIT	JOHNNY CR	1160	
155	56762C	VIDETTE RANCH	WOOLMAN LEWIS H	SEARCHER CR	92P/SE(2-E)	
156	56801C		SUMTER RICHARD L	W SQUALLY CR	8752E	
157	56828C	DEEKS CREEK	AKERS, KENNETH C.	DEEKS CR		4930/12315
158	57045C		HARRISON CAROL	SWAMP CR	82M/SW(6E)	
159	57064C		GOSS DIANNE A	BIG RED CR	118	
160	57079C		MAY THOMAS & LINDA	COCKBURN CR	8254	
161	57225C		ROSS DANIEL S	FINGLAND CR	5502	
162	57393C	TOWINOCK CREEK	EHRHARDT.EDMUND H.K.	TOWINOCK CR		5035/12151
163	57529C		JACOB.STEPHEN	GLENORA CR		5747/13127
164	57591C		MACKENZIE LAWRENCE R & GA	CHLOPAN CR	1400	
165	57709C		TRETHEWAY DONNA L	SWIFT CR	8232	
166	57738C	NELSON CREEK #1 & #2 PLANTS	NELSON, W. TITUS	TAYLOR, NELSON ETC. CRS	103I/NE	5451/12823
167	57998C		TSUNIAH L LODGE	TSUNIAH CR		5747/13127
168	58010C		BOOTH DENNIS A & LINDA P	REG CHRISTIE CR	3786	
169	58011C		BRIGGS GEORGE S	CHILDREN BR	92P/NE(16A)	
170	58034C		BLAUE ROBERT S & RONALD W	JONSON SPR	93.B.048	
171	58049C		MCNEIL JAMES A & JEAN H	DAIRY CR	5792	
172	58418C		BONTRON LEONARD K & GLADY	BONTRON CR	93A/5-E(6)	
173	58602F		BOGAARD JOHN R & ALIDA H	SHANNON CR	5230A-1	
174	58832C		GUNTERMAN AVERY H & ADELI	DOXIADIS CR	5575	
175	58934F		HEAL JOHN ESTATE OF	HECKMAN CR	8433	
176	58948C		BERISCH, HANS	EDGAR BR		5747/13127
177	59233C	EIGHT MILE CREEK PLANT	ROBERT O. SMITH AND	EIGHT MILE CR		5054/11808

OPERATING SYSTEMS

Ref.#	Cap	Precinct	Qty	Units	Descr	Date	Head	Penstock L	Dia	Turb	Hydr	Cost	Intake	Ht	Facil	Stat	Info Source
119		13K	.500	Q	Y	1981	45	365	50	D	0	1.1	StED	1	BP F D0800.01B.01HV	0	Q
120		29E	1.000	Q													
121		12C	.400	Q													
122		31B	.500	Q	N		7.5			C	0					P	Q
123		05D	.100	Q													
124		13E			N												W
125		20I	.375	Q	N	1975	30	259	100	P	0	7.5	L	2.4	BP S C 550.11B.11B	0	Q
126		02D	2.000	Q													
127		18M	3.300	Q													
128		20J	4.000	Q													
129		17C	.500	Q													
130	3	08H	11.000	Q	Y	1984	130	600	400	P	0	83	CDT	2.4	BSASF C02252.3A2.3DV	0	Q
131	10	29D	1.500	Q													
132		12B	10.000	Q													
133		18I	.800	Q													
134		18M	.300	Q													
135	75	17D	3.530	Q	N	1982	168	650	250	C		2744	CSTVA		APASSCC1200.20A2.4D	0	C
136	320	25A	6.000	Q	N	1981	260	685	355	P		21037	CTLDVA	1	AS BCC12000.6A2.4D	0	C
137		29E	.300	Q	N	1976	25	150	100	P	0	3	T		AP F W .12A0.16V	0	Q
138		18M	.200	Q													
139		29D	4.500	Q													
140		20H	.500	Q													
141		24B	1.000	Q													
142	37	18M	2.500	Q	N	1983	60	450	200	P		1	CT		BP F C0900.55B.55HV	0	Q
143		17B	.750	Q													
144		29G	.060	Q	N	1971	36	600	50	P	0	1.5	ED	0.5	AP P W0400.04A.02BV	0	Q
145		13E			N												W
146		24B	.500	Q													
147		18M	1.100	Q													
148		08H	.750	Q													
149		02D	1.000	Q													
150	30	17D	1.900	Q	N	1983	80	244	200	P	0	40	CD	0.9	AS F W1800 A DV	0	Q
151	35	17D	3.000	Q	N	1982	64	260	250	P		150	D	1.5	AP F D1800.2 A.20DV	0	Q
152	150	29C	7.500	Q	N	1979	120	975	400	P	0	200	St	1.2	BS F C0300.48A2.3HV	0	Q
153	20	13I	1.250	Q													
154		05D	2.000	Q													
155		02F	.060	Q													
156		31C	1.000	Q													
157	250	29C	12.200	Q													
158		13A	.250	Q													
159		02D	.500	Q													
160		29D	1.000	Q	N	1982	50	300	150	C	0	35	ED	9	AP F W1800.22A0.2DV	0	Q
161		18M	.200	Q													
162		02D	3.000	Q													
163		03			N												W
164		06J	.250	Q													
165		29C	1.250	Q													
166		12B	1.300	A	N		150	600	300	P		340	CS	9	BPBSL C .20B V	U	Q
167		03			N												W
168		13G	2.500	Q													
169		13C	.250	Q													
170		26A	.100	Q													
171		20E	2.000	Q													
172		05D	.080	Q													
173		18H	.750	Q													
174		18B	.500	Q													
175		30B	2.000	Q													
176		03			N												W
177	25	27E	15.000	Q													

OPERATING SYSTEMS
LISTED BY REFERENCE NUMBER

Ref.#	Water Lic.	Plant Name	Owner	Source	Map Loc.	Lat/Long
178	59714C		SAYERS DAVID M	KEEL CR	92K/6(B)	
179	59758C		MOLNAR TIBOR	TANKSY CR	92J/10E(A)	
180	59791C		MAY THOMAS & LINDA	ANHOT CR	92F.070.3.3	
181	59796C		YALAKOM RESIDENTIAL CO-OP	ANTOINE CR	92.J.090	
182	60062C	GROHMAN CREEK #3 (UPPER)	WEBB, ROLF	GROHMAN CR	82F/11	4931/1172
183	60128C		GUILTNER LIONEL & NADENE	CUB CR	1170F	
184	60147C	EBERTS COVE PLANT	CROWN FOREST INDUSTRIES L	EBERTS CR	92M/14	5149/12722
185	60235C		REITZ DAVID H & CHERYL R	FULLER CR	104G(14D)	
186	60248C		REIERSON JOHN B & DARLENE	LITTLE DISCOVERY CR	93N/NW(14-G)	
187	60315C		THOMPSON RICHARD E & HEAT	ELDER CR	93.H.049	
188	60647C		HOLDEN BEVERLEY ANN	CHARLOTTE BR	103.I.077	
189	60676C	CEDAR CREEK	STRATHCONA PARK LODGE	BAIKIE CR	92F/13	4955/12539
190	60692C		THIESSEN HAROLD J	JOFFRE CR	92J/7E	
191	60696C		LOBB JOE & ROSIE	MCDOUGALL CR	8492	
192	60904C			MARBLE R		
193	61013C		DELAMATER ANNE	CASLON CR	117	
194	61095C		WOOLMAN LEWIS W	YARD CR	92P/SE(2E)	
195	61358C		DEWAR PERCY E & PENELOPE	EIRIKSON CR	92F/NW	
196	61366C	METRAL CREEK	MURPHY, OLIVE E.	METRAL CR.		0000/00000
197	61603C		FRASER JAMES R	BOOTS CR	5883	
198	61639C	BROOKS CREEK	BROHM DEVELOPMENTS LTD	BROOKS CR	92G/14	4949/12307
199	61687C		LIPP RAYMOND	PATRICIA CR	92K/6(G)	
200	61691C		PALMER HUDSON & EILEEN	N MILLIONAIRE CR	5910M	
201	61705C		MURCHIE JOHN A	MCDONALD CR	8100A	
202	61959C		PENNER WILHELM & RANDY	HANKIN CR	103.1.058	
203	62096C	LESAGE CREEK	GREAT GLACIER SALMON LTD.	LESAGE CR	104B/12	5645/13140
204	62199C		HOFFMAN CYRILLE C & JOANN	HELLROARER CR	3134	
205	62343C	OVERLANDERS CREEK	REBINSKY, WALTER & ANNA	OVERLANDERS CR.	83D/06	0000/00000
206	63455C		RULJANCICH FRANK J & ELIZ	LITTLE CAYUSE CR	82F/5.W.E	
301	1000010	GALENA BAY HYDRO PLANT	B C MINISTRY OF ENV.	GALENA CR		5040/11750
302	1000020	WESTON MILL	WESTON, G	MULVEHILL CR		5052/11808
303	1000030	CLOUDBURST CR PLANT	MCGEE.D	CLOUDBURST CR		4950/12310
304	1000040	SKOOKUMCHUCK PLANT	SKOOKUMCHUCK BAND			4955/12228
305	1000050	DOUGLAS PLANT	DOUGLAS BAND	UNNAMED NR SLOQUET CR		4947/12211
306	1000060	GLACIER LODGE PLANT	NORTHLANDER LODGE	CONNAUGHT CR		5115/11730
307	1000070	THELWOOD CR PLANT	WESTMIN RESOURCES	THELWOOD CR	92F/12	4934/12533
308	1000080	ROCKY MTN TROUT FARM	ROCKY MTN TROUT FARM	UNNAMED SPRINGS		5058/11846
309	1000090	RENDELL RANCH COMMUNITY	RENDELL RANCH COMMUNITY	COCHRANE CR	82E/11	[illegible]
1003C	4496F		DICKENSON MINES LTD	CARPENTER CR	5452	
1003D	4497F		DICKENSON MINES LTD	CODY CR	5452	
1007B	4063F			CASCADE R		
1019B	09483F			COUGAR L		
1025B	11064F		PROCTER PAUL/LEROY	IRELAND CR	8440	
1025C	27343C		PROCTER PAUL	IRELAND CR	8440	
1028B	12183F	BUTEDALE CREEK	BURDETT, ROBERT FRANCIS O	BUTEDALE L	103H/02	5309/12842
1049B	21419F			RAGING R		
1049C	21621F			RAGING R		
1055B	59432C			GROHMAN CR		
1104B	47054C			JORGENSON CR		
1108B	49707F		HOHNDORF INGE H & ERIC	HUMMINGBIRD CR	8522A	
1111B	54865C			ROARING CR		
1136B	53012C			BARON L		
1147B	55808C		MURPHY CRAIG P & MARY L	JOHNSON CR	5501	
1166B	57739C			NELSON CR		
1199B	60677C			BAIKIE CR		

Note: Where reference number is greater than 1000, a supplementary licence at the reference number 1000 lower is indicated.

OPERATING SYSTEMS

Ref.#	Cap	Precinct ↓	Qty	Units	Descr ↓	Date	Head	Penstock L ↓	Dia	Turb ↓	Hydr	Cost ↓	Intake	Ht	Facil	Info Stat	Source ↓
178		17B	.310	Q													
179		20H	1.000	Q													
180		29D	2.620	Q													
181		02D	1.700	Q													
182		18H	20.000	Q												U	
183		05D	.500	Q													
184	75	05F	4.000	Q	N	1985	95	750	275	T		2300	StTSVA	0.8	APBPF C09000.2B4.1D	0	C
185		03	.500	Q													
186		24C	7.500	Q													
187		24B	1.950	Q													
188		25C	.200	Q													
189		17C	5.500	Q													
190		20H	1.880	Q	N		70	240	300	P	0		S		AS F C1200.12B.5	0	Q
191		30D	.400	Q													
192			1600.000	B													
193		02D	.120	Q													
194		02F	.050	Q													
195		17C	1.000	Q													
196		17A	4.200	Q													
197		20I	2.500	Q													
198		29C	2.000	Q													
199		29D	1.800	Q													
200		20J	.500	Q													
201		29E	9.375	Q													
202		12B	4.720	Q													
203	60	03	1.000	Q	N	1984	126	540	150	P	0	154	CDST	1.2	BP F C1600.44B.44DV	0	Q
204		11E	3.000	Q													
205		13G	.500	Q	N										S		Q
206		18C	.070	Q	N	1979	30	79	262	P	1		StT		BP F D0500.10A.10 V	0	Q
301	20	18F2		M	N	1983	24	4000	400	C	0		STV		BP DV	0	Q
302	90	27E2		M	Y	1981	31	128	400	T		30	ST.	0	AS F C 512.46A.46DV	0	P
303	40	29C1		M	N	1983	52	100	300	T	0	30	ST.T	0.5	AS P C 900.12A.12	0	P
304	30	20H1		M	N	1984	37	159	450	T	1	150	CDT	3	BP S C1800.12A.12D	0	P
305	30	20H1		M	Y	1984	111	475	200	P	0	128	CTVAS	.3	ASBPS C1800.24B2.3DV	0	P
306	150	10A1	.38	M	N	1983	64	442	400	P	1	335	CDT	2	BS F C 900.60B.60DV	0	Q
307	3100	17C	95	Q	N	1984	450	4190	1200	P	2	21000	CDLVA	5	AS SCC DV	0	P
308	10	13K	1.000	M	Y	1984	60	260	150	C	3	19	EDT	.6	BP F C1800.21A.21 V	0	P
309	[illegible]	11E			N	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
1003C		18I	2.000	Q													
1003D		18I	3.000	Q													
1007B			20.000	Q													
1019B			10000.000	B													
1025B		30B	4.000	Q													
1025C		30B	4.000	Q													
1028B	430	25A	6144.000	B													
1049B			135.000	Q													
1049C			13000.000	B													
1055B			20.000	Q													
1104B			1.000	A													
1108B		30G	1.000	Q													
1111B			10.000	Q													
1136B			910.000	B													
1147B		18M	.100	Q													
1166B			70.000	B	N		85	600	500	P		350	ED		BS .20B V	J	3
1189B			740.000	B													

OPERATING SYSTEMS

Ref.#	Water Lic.	Plant Name	Owner	Source	Map Loc.	Lat/Long
207	61073C	LOST VALLEY PLANT	NORJAY SERVICES	LOST VALLEY CR	0117&92J/09	5040/12220
208	63381C	TARRANT CREEK	WHONNOCK INDUSTRIES LTD	TARRANT CR	93D/SE	5200/12635
209	63806C	MILLER CREEK	MACDONALD RANCH & LUMBER	MILLER CR	2010 & 82G/03	4903/11503
210	63922C	COATS HYDRO-ELECTRIC	COATS CLYDE H	HOGGAN CR	92G/04	4909/12350
211	64042C	LUTES CREEK PLANT	NOOTKA MISSION ASSOCIATIO	LUTES CR	92E/15	4954/12646
212	64411C	LENA LAKE	TIDAL RUSH MARINE FARMS	LENA LAKE	92F/16	4955/12401
213	64446C	KAMP CREEK	GOUWENBERG FARMS LTD	KAMP CR	5851	4919/12142
214	64521C	KIMMEL CREEK	CANADIAN MTN HOLIDAYS	KIMMEL CR	83D/11	5244/11924
215	65219C	RAMONA CREEK	SOULE CRAIG & GILBERT	RAMONA CR	92G/13	4944/12343
216	65247C	TOBA INLET	TOBA HOLDINGS LIMITED	BERG CR	92K/07	5019/12448
217	65298C	WHIELDON CREEK	ATTWOOD BAY FISH CO LTD	WHIELDON CR	92K/7(B)&92K/7	5019/12440
218	65306C	PERIWINKLE CREEK	NEWCOMB POINT SEAFARMS LT	PERIWINKLE CR	92.G.062&92G12	4939/12340
219	65309C	RAMONA CREEK (HATCHERY)	HARESTAD JOHN B	RAMONA CR	92G07&92G13EAS	4945/12344
220	65321C	INDIAN ARM - NATIVE PRIDE	NATIVE PRIDE AQUACULTURE	BARKER CR	8161A&92G/7	
221	65485C	SWEDE CREEK	MCCHESNEY CLIFFORD & GEOR	SWEDE CR	1031	
222	65747C	EAST CREEK	TRIANGLE FISH FARMS LTD	EAST CR	92F/SW-W&92F/8	4925/12603
223	66025C	MATHER CREEK	HOWE FRED E	MATHER CR	1202 & 82G/12	4942/11552
224	66131C	COCHRANE CREEK PLANT	ENGLAND LEROY & PHYLLISS	COCHRANE CR	82E/10	4940/11844
225	66212C	IRELAND CREEK	DCT CHAMBERS TRUCKING LTD	IRELAND CR	8441 & 82L/7E	5024/11843
226	66661C	CROOKED LAKE	BOYES BOB	POWER HOUSE CR	93A/07	5217/12043
227	67528C	MORESBY LAKE	QUEEN CHARLOTTE POWER CORP	MORESBY LK	103C/16	5256/13208
228	68389C	HOMFRAY CREEK	HATELY BROS CONST CO LTD	HOMFRAY CR	92K.027	5015/12436
1210B	63923C	COATS HYDRO-ELECTRIC	COATS CLYDE H	HOGGAN CR	92G/04	4909/12350
1212B	64412C	LENA LAKE	TIDAL RUSH MARINE FARMS	LENA LK	92F/16	4955/12401

Note: Where reference number is greater than 1000, a supplementary licence at the reference number 1000 lower is indicated.

OPERATING SYSTEMS

Ref.#	Cap	Precinct	Qty	Units	Descr	Date	Head	Penstock L	Dia	Turb	Hydr	Cost	Intake	Ht	Facil	Stat	Info Source
207	200.0	02D	11.200	Q												L	
208	60.0	05F	12.000	Q												U	
209	60.0	08H	1.500	Q												U	
210	100.0	17A	13.000	Q	N	1986	55	152	533	T	3	120	C	11	AS C C0514575A25HV	O	O
211	100.0	01A	10.900	Q												L	
212	30.0	29D	3.000	Q		1986	88	183	305	O	2	62.6	PVC,D	1	BPVCF C1500 120DV	O	O
213	50.0	20H	4.000	Q												L	
214	250.0	24B	7.000	Q													
215	50.0	29D	2.000	Q												L	
216	30.0	29D	2.000	Q												L	
217	50.0	29D	2.650	Q												U	
218	18.0	29D	1.800	Q												U	
219	50.0	29D	2.500	Q			34	61	518	P	0	49.6	CD	2.4	ABSWF C1800.12A.12DV	U	O
220	18.0	29E	8.500	Q												L	
221	35.0	12B	2.200	Q												L	
222	15.0	01A	2.000	Q												U	
223	60.0	06A	9.000	Q		1975	20	43	305	P	3	8.1	CT,D	1.2	BPVCF C1020.24A.24HV	O	O
224	88.0	11E	4.250	Q		1986	139	881	254	P	0	50	LD	3.5	AS L C05142.3A2.3 V	L	O
225	28.0	30B	4.000	Q												U	
226	76.0	05D	5.000	Q												L	
227	5700.0	25B	300.000	Q			100	20	2100	F	2	7000	CL	5	BS C C A069 V	L	
228	75.0	29D	16.000	Q												R	
12108	.0	17A	120.000	A	N											L	
12128	.0	29D	64.000	B												L	

3.2 OPERATING SYSTEMS
LISTED BY SOURCE NAME

Source	Ref.#
ANDERSON SPR	95
ANHOT CR	180
ANTOINE CR	181
ARBUTUS CR	24
ARGENTA CR	54
BAIKIE CR	189
BAIKIE CR	1189B
BALBOA CR	103
BANNOCKBURN BR	122
BARKER CR	220
BARON L	1136B
BARON L	136
BARTHOLDI CR	123
BATTY'S CR	145
BEAL CR	153
BEAVER CR	65
BERG CR	216
BIG BAR CR	81
BIG FALLS R	22
BIG LAKE CR	67
BIG RED CR	159
BOIL CR	139
BONTRON CR	172
BOOTS CR	197
BORTHWICK CR	79
BRETT CR	83
BRITANNIA CR	5
BRITANNIA CR ET AL	4
BROOKS CR	198
BROWN CR	31
BRUCE CR	60
BUCK CR	109
BUCK CR	126
BULL R	8
BUTEDALE CR	28
BUTEDALE L	1028B
CAMP CR	35
CANBY SPR	117
CARPENTER CR	1003B
CARPENTER CR	1003C
CARVER CR	118
CASCADE R	1007B
CASLON CR	193
CASORSO BR & CASORSO SPR	77
CASPER CR	86
CASS CR	91
CASS CR	93
CAYOOSH CR	90
CHANCE CR	152
CHARLIE'S CR	133
CHARLOTTE BR	188
CHERRY CR	92
CHILDREN BR	169
CHLOPAN CR	164
CLAYTON FALLS CR	62
CLEMENS CR	116
CLOUDBURST CR	303
COCHRANE CR	309
COCHRANE CR	224
COCKBURN CR	160
CODY CR	3
CODY CR	1003D
COLD CR	85
COLDWELL CR	40
COLDWELL CR	137
COLUMBA CR	125
CONNAUGHT CR	306
CONNEL CR	149
CONNOR CR	82
CONROY CR	76
CORRAL CR	61
COUGAR L	19
COUGAR L	1019B
CROASDAILE CR	15
CUB CR	183
DAIRY CR	171
DANEY CR	68

Source	Ref.#
DEADHORSE CR	105
DEEKS CR	157
DELTA CR	97
DEREK CR RONALD CR ETC	63
DIVIDE CR	59
DOXIADIS CR	174
EAGLE R	66
EAST CR	222
EBERTS CR	184
EDGAR BR	176
EIGHT MILE CR	177
EIRIKSON CR	195
ELBOW CR	17
ELBOW CR	16
ELDER CR	187
ELK R	10
EQUESIS CR	71
ERNST CR	138
FINGLAND CR	161
FLETCHER CR	2
FRANCIS CR	120
FROST BR	119
FULLER CR	185
GALE CR	146
GLENORA CR	163
GLYN CR	143
GOAT R	43
GODWIN CR	114
GOSSE CR	150
GRAND CR	6
GRANT LAKE CR	42
GREER CR	140
GROHMAN CR	182
GROHMAN CR	1055B
GROHMAN CR	55
GROTTO CR	53
HANKIN CR	202
HARTE CR	147
HASLAM CR	47
HASTY CR	142
HECKMAN CR	175
HELLROARER CR	204
HERRLING CR	36
HILLABY CR	84
HINDER CR	89
HOGGAN CR	1210B
HOGGAN CR	210
HOLMDEN CR	23
HOMFRAY CR	228
HUMMINGBIRD CR	1108B
IRELAND CR	25
IRELAND CR	1025B
IRELAND CR	38
IRELAND CR	225
IRELAND CR	1025C
IRON L	13
IVOR CR	124
JEAN BR	72
JESSE LK	52
JOFFRE CR	190
JOHNNY CR	154
JOHNSON CR	1147B
JONSON SPR	170
JORGENSON CR	1104B
JORGENSON CR	104
KAMP CR	213
KAREN CR	141
KEEL CR	178
KENYON CR	33
KIMMEL CR	214
KOOTENAY R	34
LAPPAN CR	131
LARDEAU CR	75
LEASK CR	14
LENA LAKE	212
LENA LK	1212B
LESAGE CR	203
LESLEY CR	7
LILLIAN RUSSELL CR	37
LINK R	98
LITTLE CAYUSE CR	206

OPERATING SYSTEMS
LISTED BY SOURCE NAME

Source	Ref.#
LITTLE DISCOVERY CR	186
LONE TREE CR	88
LOST VALLEY CR	207
LUTES CR	211
MACKENZIE CREEK	301
MARA CR	108
MARBLE R	192
MARBLEHILL CR	106
MARCHANT CR	64
MATHER CR	223
MCDONALD CR	201
MCDOUGALL CR	191
MCGUIGAN CR	1
MCKAY CR	87
MCKIRDY CR	96
MEADE BR & RAM BR	32
METRAL CR.	196
MILL CR	132
MILLER CR	209
MORESBY LK	227
MUDFLAT CR	121
MULVEHILL CR	302
MUSSALEM CR	80
N MILLIONAIRE CR	200
N SQUALLY CR	156
NEHALLISTON CR	113
NELSON CR	1166B
NEMO CR	127
NICOAMEN R	78
NICOLA R	39
NIEUMIAMUS CR	99
NIMMO CR	151
OASIS SWAMP	129
OPPENHEIMER SPR	18
OVERLANDERS CR.	205
PATRICIA CR	199
PERIWINKLE CR	218
POWER HOUSE CR	226
QUEENS CR	46
RAGING R	1049B
RAGING R	1049C
RAGING R	49
RAINBOW CR	41
RAMONA CR	110
RAMONA CR	219
RAMONA CR	215
RAMONA CR	115
REG CHRISTIE CR	168
ROARING CR	111
ROARING CR	1111B
S CRANBERRY CR	58
S GRIFFITH CR	51
SALISBURY CR	45
SAND CR	112
SEARCHER CR	155
SHANNON CR	173
SHAW SPR	26
SHUSWAP R	20
SHUTTY CR	30
SILVERDAISY CR	74
SISKA CR	27
SITKUM CR	56
SIX MILE CR	94
SLATER CR	21
SMALL CR	48
SMYTH CR	57
SPILLIMACHEEN R	50
STRYEN CR	29
SUSIE BR & PERRY CR	128
SWAMP CR	158
SWEDE CR	221
SWEETWATER CR	11
SWIFT CR	165
SWIFT CR	101
TANKSY CR	179
TARRANT CR	208
TAYLOR, NELSON ETC. CRS	166
TENNENT CR	70
THELWOOD CR	307
THURSTON CR	44
TOWINOCK CR	162
TREAT CR	69
TRETH CR	107
TSUNIAH CR	167
UNNAMED NR SLOQUET CR	305
UNNAMED SPRINGS	308
VEVEY CR	134
VICTORIA L	100
VOGEL CR	135
WADE CR	102
WAP CR	73
WHIELDON CR	217
WHITTAKER CR	144
WILLIE PHILLIPPS CR	148
WOODFIBRE,MILL, SYLVIA CR	9
YARD CR	194

3.3 OPERATING SYSTEMS
LISTED BY OWNER'S NAME

Owner	Ref.#
AKERS, KENNETH C.	157
ANDERSON BYRON V & SHEILA	113
ARGENTA WATER POWER CO-OP	54
ATTWOOD BAY FISH CO LTD	217
B A MINES	105
B C HYDRO	22
B C HYDRO	50
B C HYDRO	20
B C HYDRO	58
B C HYDRO	12
B C HYDRO	10
B C HYDRO	8
B C MINISTRY OF ENV.	301
BARTOLOME JECKLIN	26
BEALE CREEK BAY RECREATIO	153
BELL, GORDON	73
BELL GORDON M	66
BERISCH, HANS	176
BERUBE JUNE FRANCES	76
BLACK ELIZABETH A	84
BLAUE ROBERT S & RONALD W	170
BOARDMAN GEOFFREY J	40
BOGAARD JOHN R & ALIDA H	173
BOLTON BRUCE N & ELEANOR	71
BONTRON LEONARD K & GLADY	172
BOOTH DENNIS A & LINDA P	168
BOWDEN, ALBERT	65
BOWELL SUSIE D	128
BOYES BOB	226
BRAINARD RAYMOND	118
BRIGGS GEORGE S	169
BRITISH COLUMBIA HYDRO &	62
BRITISH SILBAK PREMIER MI	7
BRITISH SILBAK PREMIER MI	2
BROHM DEVELOPMENTS LTD	198
BROWN CLIVE H & GRACE	93
BRUBAKER DOUGLAS R	129
BURDETT, ROBERT FRANCIS O	1028B
BURDETT,R F O	28
BURROWS BRUCE & LINDA & S	143
C & A MINK RANCH LTD.	81
CAIRNS ALAN A & PATRICIA	15
CANADIAN MTN HOLIDAYS	214
CAPLE RODERICK	33
CARSON GORDON T	96
CHERNICK ALICK & BARBARA	97
CIP FOREST PRODUCTS	103
CITY OF NELSON	34
CLAYARDS WILLIAM E & CLAR	122
COATS CLYDE H	210
COATS CLYDE H	1210B
COMINCO LTD.,	35
CONNOR BRYAN M	82
COPPER BEACH ESTATES	4
COPPER BEACH ESTATES LTD.	5
CROWN FOREST INDUSTRIES L	184
CURNOW, THOMAS	39
DAKIN RICHARD PAUL	80
DCT CHAMBERS TRUCKING LTD	225
DELAMATER ANNE	193
DEWAR PERCY E & PENELOPE	195
DICKENSON MINES LTD	1003C
DICKENSON MINES LTD	1003D
DICKENSON MINES LTD	1003B
DICKENSON MINES LTD.	3
DOMAN FOREST PRODUCTS LTD	69
DOUGAN JAMES C	144
DOUGLAS BAND	305
EHRHARDT,EDMUND H.K.	162
EINARSON FREDERICK S	140
ENGLAND LEROY & PHYLLISS	224
FELLER HELMUT	21
FLETCHER ROBERT L ET AL	89
FOSTER WALTER L	112
FRANCIS MILLERD & CO LTD.	37
FRASER JAMES R	197
FREDERICKSON HAROLD T	60
FULFORD LUMBER CO. LTD.	152
GALE FREDERICK S	146
GARAM CORNELIA M	137
GARDNER, MARIE B.B.	87
GOERKE RICHARD D	121
GOSS DIANNE A	159
GOUWENBERG FARMS LTD	213
GRAY, GEORGE R., DR.	44
GREAT GLACIER SALMON LTD.	203
GREEN BAY EXPLORATION &	83
GUILTNER LIONEL & NADENE	183
GUNTERMAN AVERY H & ADELI	174
HALL ARTHUR & MAY	24
HALVORSEN, GLADYS M.	132
HAMMOND RICHARD & JUNE	120
HARESTAD JOHN B	219
HARLOCK W., RUTKOWSKY J.A	142
HARRISON CAROL	158
HATELY BROS CONST CO LTD	228
HEAL JOHN ESTATE OF	175
HENNELL PAUL V & MARION	86
HERRLING HARRY W & DIANNE	36
HOBBS JOHN	64
HOFFMAN CYRILLE C & JOANN	204
HOHNDORF, INGE H. & ERIC	108
HOHNDORF INGE H & ERIC	1108B
HOLDEN BEVERLEY ANN	188
HOOKER WILLIAM P	61
HORNE RAYMOND J & DELLA I	102
HOWE FRED E	223
HUB CONTRACTING LTD.	6
HUDSON MATHEW C & DIANA M	134
HUNT J A	32
HUNT ROBERT A	68
J A BROWN MILL LTD	31
JACOB,STEPHEN	163
JACOBS ALEXANDER B	30
JACOBSEN EINAR M	67
JESTLEY CHARLES S & JANET	75
JOHNSON,E	27
JONES DAVID C	18
JONES W MAY	74
KAELBER ROBERT C & MARGIT	154
KARAS ANDREW P & CHRISTIN	125
KEELER DONALD E	101
KETCHUM J BRUCE & NANCY L	127
KILDONAN VILLA ESTATES LT	91
KING JENNY G	92
KITASOO HYDRO POWER LTD.	136
KLEINSCHROT PAUL	94
KNOLL, ALVIS	104
KNOWLES IVAN H & FLORENCE	85
LAVEROCK DAVID J	42
LIPP RAYMOND	199
LOBB JOE & ROSIE	191
LOBEL TIMBER LTD.	131
LUNN DAVID J ET AL	95
MACDONALD RANCH & LUMBER	209
MACDONALD RANCH & LUMBER	41
MACDONALD RANCH & LUMBER	130
MACKENZIE LAWRENCE R & GA	164
MATACHEWAN CONSOL'D MINES	1019B
MAY THOMAS & LINDA	160
MAY THOMAS & LINDA	180
MCCALL ENTERPRISES LTD	107
MCCHESNEY CLIFFORD & GEOR	221
MCGEE,D	303
MCGEORGE, PAULINE B.	45
MCKAY, ROY	56
MCLEAN, JAMES B.	150
MCLOUGHLIN MICHAEL G	149
MCNEIL JAMES A & JEAN H	171
MILLS & MENGLER MINING LT	138
MOHA INVESTMENTS LTD.	126
MOLNAR TIBOR	179
MUNDALL, R.V. & E.J.	29
MURCHIE JOHN A	201
MURPHY, OLIVE E.	196
MURPHY CRAIG P & MARY L	1147B
MURPHY CRAIG P & MARY L	147
MURRAY, CRAIG	151
NATIVE PRIDE AQUACULTURE	220
NELSON, W. TITUS	166

OPERATING SYSTEMS
LISTED BY OWNER'S NAME

Owner	Ref.#
NELSON WILLIAM M & LYNN M	114
NEWCOMB POINT SEAFARMS LT	218
NEWMAN JOHN A	14
NICKEL ROGER G	47
NIELSEN ERIK G & KAREN	133
NOOTKA MISSION ASSOCIATIO	211
NORJAY SERVICES	207
NORTHLANDER LODGE	306
OCEAN FALLS CORP	98
PALMER HUDSON & EILEEN	200
PARKIN MADELENE M	79
PARMENTER LOUISE F	117
PENNER WILHELM & RANDY	202
PERRY ROBERT P & ROBERTA	77
PETERSON WILLIAM F JR	141
PLEWS GORDON J	123
POHLMANN MADELINE	116
POPOFF EVELYN D	72
PRETTY, MRS. ROWENA,	16
PRETTY, MYRNA	17
PRETTYS TIMBER CO. LTD	63
PROCTER LEROY	25
PROCTER PAUL	1025C
PROCTER PAUL/LEROY	1025B
QUEEN CHARLOTTE POWER CORP	227
RAINER,CARL	145
REBINSKY, WALTER & ANNA	205
REIERSON JOHN B & DARLENE	186
REISWIG,R	124
REITZ DAVID H & CHERYL R	185
RENDELL RANCH COMMUNITY	309
RIBCO LEASING LTD. &	49
ROBERT O. SMITH AND	177
ROCKY MTN TROUT FARM	308
ROSS DANIEL S	161
RULJANCICH FRANK J & ELIZ	206
SANDBERG JOHANNE M	53
SAYERS DAVID M	178
SCHEIBER PETER & LINDA &	139
SCHMIDT REINHOLD V	38
SEYMOUR GILBERT D & MARY	109
SIMOR ANTON	110
SINCLAIR C ROY & BETTY A	148
SKOOKUMCHUCK BAND	304
SLIMS EXPLORATION LTD	111
SLOCAN RAMBLER MINES LTD.	1
SMYTH GWLADYS O	57
SOULE CRAIG & GILBERT	215
SPARKS WILLIAM F	52
STORBO RICHARD	51
STRATHCONA PARK LODGE	189
SUMMERS MEARNIE I	23
SUNTER RICHARD L	156
SURF INLET POWER CO LTD	19
TALLHEO MARINE LTD.	99
THIESSEN HAROLD J	190
THOMPSON RICHARD E & HEAT	187
TIDAL RUSH MARINE FARMS	1212B
TIDAL RUSH MARINE FARMS	212
TOBA HOLDINGS LIMITED	216
TRETHEWAY DONNA L	165
TRIANGLE FISH FARMS LTD	222
TSAWATAINEUK BAND	135
TSUNIAH L LODGE	167
VAN DYKE CORNELIUS F	78
VANDERHOEK JAN J & JOANNE	106
WAITE GLENARD E	46
WALDEN NORTH ENTERPRISES	90
WATSON DAVID G & MARLENE	119
WEBB, ROLF	182
WEBB, ROLF	55
WEST KOOTENAY POWER AND L	43
WESTERN PULP LTD	9
WESTERN PULP LTD.	100
WESTMIN RESOURCES	307
WESTMIN RESOURCES	70
WESTON, G	302
WHONNOCK INDUSTRIES LTD	208
WIDELL ERNEST H	48
WILLIEWIN RANCH LTD	59
WOOLMAN LEWIS H	155
WOOLMAN LEWIS W	194
WRONSKI P/B M	88
YALAKOM RESIDENTIAL CO-OP	181
ZUIDEMA CORNELIUS & MARTI	115

3.4 OPERATING SYSTEMS
LISTED BY PLANT NAME

Plant	Ref.#
ABERFELDIE	8
ALOUETTE	12
ARGENTA CREEK PLANT	54
BEACH POWERHOUSE	4
BEALE CREEK PLANT	153
BRETT CREEK PLANT	83
BROOKS CREEK	198
BROWN MILL	31
BUCK CREEK PLANT	126
BUTEDALE CREEK	28
BUTEDALE CREEK	1028B
CAMP CREEK	35
CASCADE CREEK	7
CASS CREEK PLANT	91
CEDAR CREEK	189
CITY OF NELSON PLANT	34
CLAYTON FALLS PLANT	62
CLOUDBURST CR PLANT	303
COATS HYDRO-ELECTRIC	1210B
COATS HYDRO-ELECTRIC	210
COCHRANE CREEK PLANT	224
COUGAR LAKE	1019B
COUGAR LAKE	19
CROOKED LAKE	226
DEEKS CREEK	157
DOUGLAS PLANT	305
EAST CREEK	222
EBERTS COVE PLANT	184
EIGHT MILE CREEK PLANT	177
ELBOW CREEK PLANT	16
ELKO PLANT	10
FALLS R	22
FLETCHER CREEK (SILBAK)	2
GALENA BAY HYDRO PLANT	301
GLACIER LODGE PLANT	306
GOAT RIVER PLANT	43
GRANITE FALLS CREEK	6
GRANVILLE BAY PLANT	131
GROHMAN CREEK #3 (UPPER)	182
GROHMAN #1 AND #2 PLANTS	55
HASTY CREEK PLANT	142
HOEYA HILTON HYDRO	150
HOME POWER COMMISSION	124
HOMFRAY CREEK	228
HUMMINGBIRD - MARA PLANT	108
INDIAN ARM - NATIVE PRIDE	220
IRELAND CREEK	225
IVAN CREEK PLANT	63
JORGENSON CREEK PLANT	104
KAMP CREEK	213
KILBELLA BAY PLANT	103
KIMMEL CREEK	214
KINGCOME PLANT	135
KLEMTU PLANT	136
LENA LAKE	212
LENA LAKE	1212B
LESAGE CREEK	203
LILLIAN RUSSELL CREEK	37
LOST VALLEY PLANT	207
LOWER BIG BAR CREEK	81
LUCILLE LAKE PLANT	152
LUTES CREEK PLANT	211
MATHER CREEK	223
MCGUIGAN CREEK PLANT	1
MCKAY CREEK PLANT	87
METRAL CREEK	196
MILL CREEK PLANT	132
MILLER CREEK	209
MORESBY LAKE	227
NELSON CREEK #1 & #2	166
NIMMO BAY PLANT	151
OCEAN FALLS PLANT	98
OVERLANDERS CREEK	205
PERIWINKLE CREEK	218
PHILLIPPS CREEK	130
PORT ALICE PLANT	100
RAGING RIVER	49
RAINBOW CREEK PLANT	41
RAMONA CREEK	215
RAMONA CREEK (HATCHERY)	219
RENDELL RANCH COMMUNITY	309
ROARING CREEK	111
ROCKY MTN TROUT FARM	308
SALISBURY CREEK PLANT	45
SHUSWAP FALLS PLANT	20
SKOOKUMCHUCK PLANT	304
SLOCAN STAR PLANT	3
SPILLIMACHEEN PLANT	50
STRYEN CREEK	29
SWEDE CREEK	221
TALLHEO PLANT	99
TARRANT CREEK	208
TENNENT CR PLANT	70
THELWOOD CR PLANT	307
THREE VALLEY PLANT	73
THURSTON CREEK PLANT	44
TOBA INLET	216
TOWINOCK CREEK	162
TREAT CREEK PLANT	69
TRETH CREEK PLANT	107
TUNNEL POWERHOUSE	5
VIDETTE RANCH	155
WALDEN NORTH PLANT	90
WALTER HARDMAN PLANT	58
WESTON MILL	302
WHIELDON CREEK	217
WOODFIBRE PLANT	9

4. CASE STUDIES

The case studies shown in this section are described in a narrative style with most data also listed in the Operating Systems Lists (Section 3) and the Contents List below. Additional information is provided in the computer package and in Section 2.3.

Ref. No.	Name	Owner	Source	Location	Capacity	$/kW
B1	ROCKY MOUNTAIN TROUT FARM	ROCKY MTN TROUT FARM	UNNAMED SPRINGS	82L/15	10	1930
B2	HOLMDEN CREEK	SUMMERS, MEARNIE	HOLDEN CREEK	8100D	10	
B3	PARMENTER POWER	PARMENTER, L	CANBY SPR	103I.0B7	10	2300
B4	CARSON HYDRO	CARSON, G	MCKIRDY CREEK	83D/NW	6	1670
B5	ARGENTA CO-OP	ARGENTA CO-OP	ARGENTA CREEK	82K/02	40	1750
B6	DOUGLAS PWER PLANT	DOUGLAS INDIAN BAND	UNNAMED NR SLOQUET CR	92/G16	30	4270
B7	WESTON SHINGLE MILL	WESTON, G	MULVEHILL CREEK	82L/16	90	300
B8	THREE VALLEY GAP	BELL, G	WAP CREEK	82L/16	150	1930
B9	MACDONALDS RANCH AND MILL	MACDONALD, D	PHILLIPS CREEK	82G/2	400	207
B10	CLAYTON FALLS	BC HYDRO	CLAYTON FALLS CREEK	93D/07	700	
B11	TENNENT CR HYDRO PROJECT	WESTMIN RESOURCES LTD	TENNENT CREEK	92F/12	3060	2500
B12	MORESBY LAKE HYDRO PROJECT	QUEEN CHARLOTTE POWER	MORESBY LAKE	103C/16	6000	1830
B13	MAC HYDRO #1	MACDONALD, DOUG	RAINBOW / PHILLIPS CR	82G/2	75	267
B14	PTARMIGAN CREEK	ROBSON VALLEY POWER	PTARMIGAN CREEK	94H/10	300/2000	1000/600
B15	STRATHCONA PARK LODGE	STRATHCONA POWER LTD	BAIKIE CREEK	92K/4	80	2761
B16	COATS HYDRO ELECTRIC	COATS, CLYDE	HOGGAN LAKE	92G/4	150	800
B17	SMALL RESIDENTIAL SYSTEM	HALL, DARRELL	UNNAMED	82G/12	1.50	2313
B18	SMALL RESIDENTIAL SYSTEM	MACKENZIE, SCOTT	UNNAMED	92J/15	0.21	7952
B19	SMALL RESIDENTIAL SYSTEM	SCHEIBER, LINDA	UNNAMED	92F/15	0.50	9730

4. CASE STUDIES

4.1 ROCKY MOUNTAIN TROUT FARM HYDRO - 10 kW

1. Background

The hydro plant was built in 1983-84 to supply power to the Rocky Mountain Trout Farm which includes a hatchery and a fish processing plant. Unusual aspects of the project are the fairly constant spring-fed water supply and a home-made 15 hp crossflow turbine.

2. Design and Layout

Gary Bashforth of Basic Energy Alternatives Ltd. designed the project and coordinated its construction.

Three small spring-fed creeks near the trout farm produce a fairly constant flow of 2 - 3 cfs year round. A small headpond 10ft x 15ft by 3ft deep was formed on one of these creeks by building a 2 ft high log-earth dam. The intake for the 6-inch diameter PVC pipe is a steel screen box 24 x 18 inches, with one face covered with 1/2 inch wire mesh. The PVC pipe passes through the dam and is buried for its full length of 800 feet to the powerhouse. The powerhouse is a wood-frame building 10ft x 10ft with concrete foundation and tailrace pit.

Drawings for the home-made crossflow turbine were taken from a booklet entitled **Low Cost Development of Small Water Power Sites** (see Reference 10) which explains how to make the turbine. Examples of the drawings are shown in Figure 4.1. As an aid to building the turbine, the drawings from the book were redrawn to full scale by the builder. Basically, the turbine consists of two metal discs 12-inches in diameter set 3-inches apart on a shaft, with blades cut from a 4-inch diameter pipe and welded to the discs. The turbine develops about 15 hp at an efficiency of about 60 percent. This efficiency could be improved by removing an 18-inch diameter piece of pipe (for a load dump - see below) just upstream of the turbine.

The turbine is governed by an electronic speed control system designed and made by Gary Bashforth. The control system includes a series of small water heaters in the 30-inch length of 18-inch diameter pipe immediately upstream of the turbine inlet flange. It is planned to remove this length of pipe and install a water tank with heaters for dump loads. The flow through the tank would be above 5gpm and would be used to partially heat the water in the fish processing building.

3. Construction

The construction and installation of equipment was coordinated by Gary Bashforth with labour paid for with a federal government NEED grant. No major problems were encountered during construction. About 260 feet of pipe were already in place and being used as water supply to the hatchery. The new pipeline for the hydro project was joined to the water supply pipe in the field with fibreglass. The water supply could not be interrupted long enough to allow the fibreglass to cure and several fibreglassing attempts were made before a satisfactory joint was formed.

4. Operating Experience

The plant has been running continuously for nearly 2 years with a normal steady output of 7 kW. The useful loads are about 6 kW during the winter and about 4 kW in the summer, with surplus output going to the heat dump. Useful loads are lights in the hatchery and lights, freezers, hot water heaters, and machinery in the processing plant (including using heat dump water for rearing purposes).

Plant maintenance involves greasing the turbine bearings every 2 to 3 weeks.

5. Project Summary - Rocky Mt Trout Farm Hydro

Capacity:	10 kW
Gross Head:	200 feet
Intake:	3-foot deep headpond with steel screen-box 18 x 24 inches.
Penstock;	860 feet of 6-inch diameter PVC pipe, buried.
Powerhouse:	wood-frame structure 10 feet square; concrete floor, machine pedestal and tailrace.
Turbine:	15 hp homemade cross-flow turbine, 12-inches diameter, 900 rpm.
Generator:	14 kW Kato, 120/208 volts, 3 phase, 1800 rpm, belt driven.
Governor:	Electronic speed control.
Backup Power:	None (gasoline or diesel powered generator planned).
Transmission Line:	600 feet, 120/208 volts, 3-phase, wood poles.
Completed:	1984.

6. Cost Summary

The following approximate costs are those paid by the owner and do not include the labour costs covered by the NEED grant.

Pipeline materials	$ 3,600
Powerhouse materials (estimated)	1,000
Turbine (materials for building)	750
Generator	4,000
Load control system and dummy loads (materials)	2,500
Design fees; wages for building the turbine and load control system; wages for installing electrical and mechanical equipment	7,500
Total actual costs	$ 19,350

4.2 HOLMDEN CREEK PROJECT - 10 kW

1. Background

Holmden Creek flows into Indian Arm at Thwaytes Landing, 3½ miles north of Deep Cove in North Vancouver. The original project was built in the 1930's to supply power to one residence. The present owners came to live at Thwaytes Landing in 1970 and the plant has continued to operate since then.

2. Design and Layout

Holmden Creek drainage basin covers an area of about 1.0 sq mile on the east side of Mount Seymour, with a range of elevation from 3000 feet to sea level. The creek is steep - with a gradient of 38 percent - and at the site of the intake it flows through a narrow rock walled canyon about 30 feet wide. The creek bed consists of large boulders many of which are about 4 feet across, and some have dimensions up to 10 feet. The 4-foot boulders have moved under extreme flood flows that have occurred since about 1970 when the present owners first came to Thwaytes Landing. The original intake that Tom Thwaytes built withstood most of the severe floods: it was probably designed from careful observations of the creek when in flood. However, in 1983 the intake was destroyed by a debris slide in the stream which occurred at the same time as the slide in M Creek near Lions Bay. The intake was rebuilt in 1983 to the orignal design in the same location - see Figure 4.2.

A concrete slab, 16 feet long and 2 feet deep, was poured across the creek with a slight slope towards the intake box on the left side of the creek. The owners plan to put wood on the concrete slab to protect it from boulders rolling down the creek.

The intake box was built downstream of the largest boulder in the creek - 10 ft x 5ft x 5 ft high - which protects the intake from most floods and debris slides. The box is about 3 feet wide, 11 feet long and 1½ feet deep; a plywood slide gate controls the inflow, and a 1 in x 1 in wire mesh screen across the box, and a plastic milk crate over the end of the pipe, prevent most of the floating debris getting into the pipe. A plywood roof over the intake box prevents sand and gravel filling the box when a slide occurs in the creek.

It was planned to put in a clean-out pipe to sluice the sand from the intake box, but this was omitted to save time during construction to enable the intake to be completed before the flood season.

The pipeline consists of a 12-foot length of 8-inch diameter wire-wound wood-stave pipe cast into the concrete of the intake box, 150 feet of two parallel 3-inch diameter polyethylene pipes suspended along the canyon wall through car tires attached to polypropylene rope, and about 790 feet of 8-inch diameter buried wood-stave pipe leading to the powerhouse. Originally the pipeline was all wood-stave but a portion of it collapsed when part of the canyon wall slid away in 1983. The two 3-inch polyethylene pipes were bought because they were cheaper than one larger pipe. Although their combined area is only about one quarter of the area of the wood-stave pipe, the maximum velocity in the 3-inch pipes is 9ft/sec.

The powerhouse near the waterfront home is a wood frame structure built on piles with the floor about 8 feet above ground at normal high tide level. A short length of 6-inch steel pipe leads from the buried wood-stave pipe to a 4-inch pipe and valve, then reduces to a 3-inch diameter turbine inlet pipe.

The turbine is a Pelton type unit (no manufacturer's name visible), 480 rpm, with a 28-inch pitch diameter on the buckets. The normal nozzle size is 1¼-inch diameter. During the low summer flows a 3/4-inch diameter nozzle is used; this enables the generator to put out 2½ kW, which is enough for lights and hot water. There is no deflector on the turbine, and no governor. The speed of the turbine is regulated by the electrical load on the generator.

The 10 kW Westinghouse generator is belt-driven at 1800 rpm. The exciter is a 1 hp Marathon Electric motor from a sailing ship.

3. Construction

There are no records of the original construction. After the original intake was destroyed in 1983, it was rebuilt by the present owners in 39 days. All the materials for the concrete slab and intake box were carried to the site. Holes were drilled in boulders to take reinforcing bars to anchor the concrete slab. A small electric concrete mixer was used for the concrete slab and intake box.

4. Operating Experience

The plant runs almost continuously. Occasionally the intake screens are blocked with frazil ice, and the plant is shut down, but normally the screens are removed when freezing temperatures are forecast. A cover to the downstream side of the intake shed would probably reduce icing problems.

When heavy rain is forecast the wooden slid-gate controlling flow into the intake box is closed to prevent large quantities of sand and gravel from entering the box. Sand and gravel are removed from the box about twice a year.

On average, the plant has to be shut down for about 2 weeks each year because of ice or debris in the intake box. At these times power is supplied by a 10 kW diesel generator.

The turbine buckets were in poor condition when the present owners took over the plant in 1970. In 1976 a new shaft, new bearings and several new buckets were made. The buckets were made from parts of the casings of electric motors, which were almost exactly the same shape as the original buckets. The buckets are still in good condition (1986).

The unit runs smoothly with the present load of about 6 kW. Before the intake and pipeline were destroyed in 1983, the maximum load was about 10 kW. At this load there was considerable vibration of the turbine and more wear on the bearings.

The present load is maintained at about 6 kW and comprises 4 space heaters, a water heater, a small hot-plate and about 10 lights. Propane is used for cooking and the refrigerator. Because the owners prefer propane to electricity for cooking, there would not be much benefit in installing an electronic load control unit.

5. Project Summary - Holmden Creek

Completed:	1930's
Capacity:	10 kW
Gross Head:	190 feet
Intake:	Concrete diversion slab across creek; concrete intake box 3 x 11 feet; 1 x 1 inch wire mesh screen.
Penstock:	790 feet of 8-inch diameter wood-stave; 150 feet of two parallel 3-inch diameter polyethylene pipes.
Powerhouse:	Wood frame with wood floor, on piles 8 feet above high tide.
Turbine:	28-inch diameter Pelton, 480 rpm.
Generator:	Westinghouse, 10 kW, 110 volt, 1800 rpm, belt driven.
Governor:	None
Backup Power:	10 kW diesel
Transmission:	Overhead cable to house, about 50 feet.

6. Project Costs

There are no records of the costs of the original project or of the reconstruction of the intake or repairs to the turbine. The only cost of reconstructing the intake would have been for cement and lumber; the owners and friends contributed free labour. The cost of repairing and replacing machinery are kept to a minimum by using used parts, when available.

4.3 PARMENTER HYDRO POWER - 10 kW

1. Background

This hydro project is about 26 miles north of Terrace. It was built by the owner Don Parmenter in 1980 and supplies power to two houses and outbuildings. The project has several interesting features: A rock-filled gabion dam, a fairly low head of 28 feet, and a vertical shaft turbine-generator unit enclosed in a weatherproof housing.

2. Design and Layout

The layout was developed by the owner with help from knowledgeable friends. Site information was sent to James Leffel & Co who supplied the enclosed turbine-generator unit.

Water comes from a large spring which normally flows at about 10 cfs year round. However, in the winter of 1985-86 the flow decreased to about 3 cfs probably on account of the extremely dry summer in 1985.

A rock-filled gabion dam 5 feet high by 30 feet long was built just downstream of the spring to form a headpond. The central overflow section has a concrete upstream face and crest. One layer of gabions is laid along the downstream toe to prevent erosion of the foundations. The penstock pipe is incorporated in the dam between gabions, and the upstream end of the pipe is concreted into the gabions.

No sediment collects in the headpond because there is no stream flowing into it.

The penstock is buried and is made of 14-inch diameter asbestos-cement pipe with joints that allow a 5° deflection. There is a collar joint at the turbine which allows a 10° deflection. The enclosed turbine-generator assembly has a Hoppes lowhead, vertical shaft turbine with the governor and generator mounted on the same shaft above the turbine. The whole unit is set on two I-beams about 3 feet apart, which are bolted to a cedar log base. Excessive vibration of the unit and problems with the governor flyball mechanism were encountered when the unit was first started up. Extensive changes were made to the unit by a local machine shop: the governor was removed, a larger diameter shaft and new bearings were fitted, a flywheel was added and an electronic load control governor made by Thompson and Howe was installed. The load dump for the governor consists of four oven elements located in the outside air. The cost of these modifications was borne by Leffel & Co.

The transmission line is a used, buried cable obtained from a local radio station.

3. Construction

The project was built by the owner using his own cat and backhoe; this reduced the costs considerably. The ground in the area of the project consists of loose sand and gravel, and the owner thought that a concrete dam built on this type of ground would crack. It was thought that a gabion dam would be able to accommodate to any foundation settlement without failing. Similarly, at the powerplant, it was thought that a concrete foundation would crack due to settlement, so a cedar log base was built. A tailrace channel 110 feet long was excavated, using the backhoe, in order to reduce the length and cost of the penstock.

4. Operating Experience

Apart from the initial problems with the turbine, the unit works well, generating an average of 10 kW continuously. Downtime has been about 2 weeks in 5 years.

5. Project Summary - Parmenter Hydro Power

Completed:	1980
Capacity:	10 kW
Gross head:	28 feet

Intake:	Rock-filled gabion dam, 5 feet high, 30 feet long; concrete upstream face and crest on overflow spillway section; penstock incorporated into gabions.
Penstock:	Buried asbestos-cement pipe, 14-inch diameter, 290 feet long, flexible joints.
Powerhouse:	None
Turbine-Generator -Switchgear unit:	10 kW Hoppes Hydro-electric unit by James Leffel & Co; flyball governor replaced with flywheel.
Governor:	Thompson and Howe electronic load control.
Backup Power:	None
Transmission:	1600 feet of buried cable (from radio station), 7200 volts.

6. Project Costs

Approximate project costs are given below. The actual costs to the owner were those of the materials only. Labour costs have been shown at $10.00/hour to give an estimate of the total project cost.

Item	Materials	Labour		Total
	$	Hours	$	$
Intake	360	240	2,400	2,760
Penstock	4,000	20	200	4,200
Powerplant foundation	-	50	500	500
Turbine-generator	13,000	100	1,000	14,000
Transmission line and Transformers (used)	750	80	800	1,550
Tailrace channel	-	16	160	160
Totals	**18,110**		**5,060**	**23,170**

7. People who want to build their own plants and would like to see this project should contact Don Parmenter by radio phone: H49 5042 on Terrace Channel JL.

4.4 CARSON HYDRO - 6 kW

1. Background

The plant was built by the owners, Gordon and Art Carson, to supply electricity to three houses near Valemont. It was completed in 1975. Of particular interest is the used Pelton turbine they rebuilt and the combination electronic-mechanical governing system they designed and built.

2. Design and Layout

The layout of the project was designed by the owners. A small head pond was formed on McKirdy Creek by constructing a 10-foot high timber and earth dam. This consists of 3 x 12-inch cottonwood planks nailed on the flat, set on a concrete footing, with an earth embankment stretching about 15 feet downstream of the timber wall. There is a 3 ft x 4 ft sluice in the dam with a timber gate. The intake screen-box is 2ft x 5ft x 3ft high with an expanded metal grating covered with window screen: the fine screen is to keep the water clean for the domestic water supply which is taken from the pipe leading to the hydro plant.

The pipeline is 1500 ft long, 5-inch diameter PVC and is buried about 3 feet deep.

A 3-foot diameter used Pelton wheel, without shaft or bearings, was purchased from Slocan; the wheel had come from a turbine that used to supply power to Slocan City. The owners fitted a shaft and bearings and made a cover for the turbine. This wheel under the right conditions would likely have a much higher capability.

As part of the governing system, the turbine nozzle is attached to a 2-foot length of hose so that, by moving the nozzle, the jet can be deflected away from the buckets. A voltage regulator senses frequency changes and switches a 12 volt dc motor on or off, and this in turn moves the nozzle. There is also an electronic load management system which controls large changes in load.

3. Construction

Rebuilding the turbine and constructing the project was done over a period of about 4 years. The only major problem encountered during construction was keeping water away from the dam site without stopping the flow in the stream. Water was diverted away from different parts of the dam as each part was being built.

4. Operating Experience

The plant has operated continuously since it was built. Output averages about 5 kW, which is enough to provide hot water all the time in the three houses.

Surface imperfections on the turbine shaft caused one of the bearings to fail. The shaft was renovated and a new bearing installed.

5. Project Summary - Carson Hydro

Completed:	1975
Capacity:	6 kW
Gross Head:	185 feet
Intake:	10-foot high timber plank wall with earth embankment upstream; 3 x 4ft sluice way with timber gate; 2 x 5 x 3ft high intake screen-box with fine window screen (for domestic water also).
Penstock	1500 feet of 5-inch diameter PVC pipe, buried.
Powerhouse:	12 x 16 x 8ft high concrete block walls on concrete foundation.
Turbine:	6 kW Pelton rebuilt by owner.
Generator:	10 kW (approx), 110/220 volts
Governor:	Partial electronic load management, and automatic movement of turbine nozzle.
Backup Power:	Spare turbine and 12 kW generator.
Transmission Line:	500 feet long above ground, 220 volts.

6. Project Costs

Estimated costs of the project are given below. A labour rate of $10.00/hour has been applied to the hours worked by the owners to give an approximate value for the total project cost.

Item	Materials	Labour		Total
	$	Hours	$	$
Intake	200	60	600	800
Penstock	3,400	30	300	3,700
Powerhouse	1,200	80	800	2,000
Turbine (cost of used parts and rebuilding)	1,200	200	2,000	3,200
Generator, voltage regulator	600	-	-	600
Totals	**6,600**		**3,700**	**10,300**

7. Visitors

Any person wanting to build his own plant and wishing to see the Carson project, should write to Gordon Carson, Box 441, Valemont, BC, VOE 2Z0.

4.5 ARGENTA CREEK PROJECT - 40 kW

1. Background

The Argenta Creek project was built in 1958 to provide electricity for several households. The owners of the properties formed the Argenta Water Power Co-operative to obtain a water licence for the project. Hugh Elliot planned and built the project, and is responsible for its operation.

2. Design and Layout

The project uses water from Argenta Creek, which has a drainage basin area of about 3 square miles and an elevation range of 1750 - 8500 feet. Flows in Argenta Creek drop to about 0.6 cfs in February or March at the end of winter snow accumulation period.

No hydrology studies or engineering design were done for the project.

A 20-foot long plank across the creek serves as a weir to divert water into a 400-foot long ditch about five feet wide at the water surface. The ditch leads to a wooden screen box with a 6-inch outlet pipe for the power flows and another pipe for domestic water supply. Note the possibility exists of using multiple pipes to increase the flow and hence output from the turbine.

The penstock is a 6-inch diameter spiral-welded steel pipe coated with tar, joined with Johnson couplings, and buried.

The original 53 HP Gilkes Pelton turbine was purchased in 1957 and is still in use. It has a shaft governor. The original generator ran for 25 years on the same set of bearings; however the armature rings had worn out by 1984 when it was replaced with a 40 kVA Kato brushless generator. The turbine and generator are bolted to a concrete foundation block. Additional anchorage for the turbine is provided by a bolted connection to the penstock which is anchored by a covering of 10-feet of fill, just upstream of the powerhouse, where the penstock runs under a highway. The powerhouse superstructure is a wood frame building.

Power is transmitted at 600 volts, 3-phase, to each of the 10 residences which are within a radius of 1 mile from the plant. Each residence has its own transformer of various sizes from 1.5 to 5 kVA.

3. Construction

There are no records of the design or construction of the project. Mr Elliot remembers using a D6 cat to pull the lengths of pipe up the hill. The pipe was coated with pitch, much of which was removed during construction. The pipe was buried without recoating, and it has not been examined since.

4. Operating Experience

The plant has operated almost continuously for 28 years. During this time two alternators have burnt out: one burn-out was caused by lightning, the other by incorrect operation after the alternator current failed.

One of the turbine bearings has been replaced. The bearing was not a standard size in the USA or Canada and had to be obtained from the UK, which caused a considerable delay.

The normal peak load is 25 - 27 kW. Although the generator is rated at 40 kW its maximum output is limited by the turbine to about 30 kW. During the late winter low flow period, February/March, the maximum output drops to about 18 kW.

The 400-foot long intake channel has been very effective in allowing sand and gravel to settle out before reaching the screen box. Consequently, there has been very little wear on the turbine buckets.

5. Project Summary - Argenta Creek Project

Completed:	1958
Capacity:	40 kW
Gross Head:	500 feet approximately
Intake:	20-foot long wood weir; 400-foot long channel; wood screen box
Penstock:	2350 feet of 6-inch diameter spiral-weld steel pipe with Johnson couplings; buried.
Powerhouse:	Wood-frame structure with concrete turbine-generator foundation.
Turbine:	53 hp Gilkes Pelton wheel, 15-inch pitch diameter, 1200 rpm; shaft governor.
Generator:	40 kW Kato brushless generator, 600 volts.
Backup Power:	None
Transmission:	Wood pole, up to 1 mile, 600 volts.

6. Project Costs

No precise records of the cost of the project are available. The total cost in 1958 was about $15,000. Assuming a maximum output of 30 kW (the

40 kW generator is oversized) the cost per kW would have been $500/kW in 1958, which is equivalent to $1500 - $2000/kW in 1986. This provides energy at about the same cost as BC Hydro residential power rates.

7. Visitors

Visitors can contact Hugh Elliot at 366-4489 or drop by the Argenta Wharf and enquire.

4.6 DOUGLAS POWER PLANT - 30 kW

1. Background

The Douglas Power Plant is located on an unnamed creek near the mouth of Sloquet Creek, 3 miles north of the north end of Harrison Lake, and on the west side of the Lillooet River Valley. It serves the Douglas Indian Band, a community of 12 dwellings and a school which has been at the location for nearly 10 years.

The community was supplied with a diesel generator initially, but the increasing fuel costs forced the band to seek alternatives. The presence of a nearby creek was recommended in a study by Reid Crowther and Partners Ltd to form the water supply for a hydro power plant.

2. Design

The Douglas project (and its companion project, Skookumchuk, 50 km north) are interesting in that their design was taken to the conceptual level by the consultant, but the details were worked out by the contractor. The project size was selected by the consultant based on the projected needs of the community. The relatively small size of the village meant that less load diversification would occur and some additional peaking capacity would be required.

The hydrology was based on regional runoff patterns and was not verified by gauging. The project was specified with a design flow and a power output, and the contractor was required to provide a system to fit the requirements.

The intake consists of a curb which goes across the creek to direct all flows over the grillage arrangement which is on the right side of a 3 m wide rock canyon. The water flows over the 6 x 45 mm steel flat bars (on edge) which have a 10 mm spacing, so only coarse debris is removed. The water then passes through a 30° metal cone funnel into the penstock. A knife edge gate valve controls the flow, and a 75 mm diameter air vent is located just downstream of the valve.

The penstock begins as 200 mm diameter schedule 40 steel pipe, following the creek for 3 m before spanning the creek and jumping to the left bank which is followed for the rest of the route. A 1.7 m high support is provided at mid span. At 38 m from the intake a steel sediment tank is entered. This device separates out the fine sediments and discharges sediments out the bottom through a manually operated flush valve. From the sediment tank, the penstock follows an access road (built as part of the project) with 188 metres of Series 100 PVC, then 186 metres of Series 160 PVC and finally 63 metres of Series 200 PVC to reach the powerhouse. The pipe is solvent welded and is laid on top of the access road with soil support on the sides. The penstock reaches the powerhouse, and enters the building as a steel pipe. Water hammer is accounted for by derating the pipe series 15% and by incorporating a pressure relief valve which starts acting on 1% overpressure.

The powerhouse consists of a Brytex prefabricated self supporting steel building on a concrete slab. The building is clad in painted steel on the outside, and aluminum lining on the inside, and insulated to R12. The 3.0 m x 4.38 m building houses the turbine, generator and control panel, while the governing equipment is located near the village. The water from the turbine is carried from the building through a precast electrical manhole cast in the floor slab, then discharged through a 400 mm diameter culvert pipe 7 metres long to the creek.

At the powerhouse, water passes through a single nozzle and turns a 375 mm diameter Pelton wheel turbine manufactured by Dependable Turbines Ltd. The turbine rotates at 1000 rpm and is connected with a belt drive to an 1800 rpm Kato generator producing 30 kW at 120/240 volts, single phase. Control is provided by a servo control needle valve and an electronic governor. The governor matches a load dump to the village load so as to maintain a constant total load on the turbine and maintain frequency at 60 Hz. The needle valve is controlled by a set of pressure transducers on the penstock: if the penstock pressure decreases, indicating reduced water flow at the intake, the valve is partially closed by a hydraulic system.

The power is transformed into 2300 volts and transmitted a distance of 1060 m to the Village. The system consists of a #5 - 5 kV rated conductor plus a #8 - RWU neutral, suited for direct burial and located inside a 40 mm PVC conduit buried beside the road at a depth of 1 metre. The power cable leads to an overhead distribution system at 120/240 volts. The governor for the powerplant is located in an Energy Recovery Building (which consists of a laundromat, showers and community washrooms) as the governor only needs to sense frequency on the line in order to regulate the load in the adjacent load dump tank. The load dump tank also serves as a preheater for the hot water tank in the building.

The power supply system is completed by a 50 kW diesel standby unit, manually started and initially not capable of synchronization. A simple and inexpensive dead field synchronization system is presently being added by Highland Energy Systems Ltd.

3. Contracting and Construction

The project was tendered by Indian and Northern Affairs Canada simultaneously with the 30 kW Skookumchuck plant, based on a set of design guidelines. However, final design was not provided; instead the successful contractor, Highland Energy Systems Ltd undertook a design-build contract, incorporating many suggestions and improvements of their own as they went along. The contract was also enhanced because the two projects in the same area could be worked on at the same time.

The work on both projects began in May 1984 and Douglas was substantially completed in September 1984. Since then, some improvements have been made, such as the construction of the laundromat. The construction work force consisted of a working superintendent and 2 labourers, with some extra assistance brought in for machine work, welding and electrical installation as required. During construction, 2 inspections by the Department of Indian Affairs were provided, but no other supervision was required.

Like any construction project, a number of problems occurred, and they were successfully overcome. A small tracked backhoe was very useful in constructing the intake access, trenching the power cable and excavating for the powerhouse foundation. The intake access was especially difficult due to the steep incline and rugged terrain, however the small backhoe was able to carve a 2.5 m wide road to within 40 m of the intake, which formed both the intake access and the bed of the penstock. The construction of the intake itself was challenging because it was located in a narrow rock canyon. An 8.5 m long pedestrian access bridge was built from a fallen log and used to move materials to construct the intake. The penstock span was separate, and a valve handle extension 2.5 m long was provided to make routine shut offs more convenient. The final construction innovation concerned the mixing of the concrete. With the nearest batch plant too far away to make the trip, a truck mixer was brought in from Whistler with aggregate only, then the mix was made on site using bagged cement brought in on the freight barge. A helicopter was used to bucket the mix to the intake, and the powerhouse slab was poured at the same time.

4. Operating Experience

The system has operated relatively well since its completion. Although an availability of 90% was averaged during the first 6 months of operation, availability over the succeeding year has been about 99%. The problems have included belt slippage on the drive system and outages caused by operator unfamiliarity. The load dump tank boiled dry once, burning out the heaters because the water inlet became plugged.

Because of the exposed location of the intake, the grillage is prone to freezing problems on the grills, but these only become serious when the temperature is below -10°C. Temporary blanketing of the intake has helped because the water is usually warmer than the air when freezing is a problem. The intake has also been subject to air entrainment problems at high stream flows, because of the increased turbulence in the intake. The problem has been solved by putting an air vent extension on the sediment tank, but it could be solved at the source if there was room to put in baffling at the intake structure.

5. Project Summary - Douglas Power Plant

Completed:	1984
Capacity:	30 kW
Gross Head:	111 m (360 feet)
Penstock Length:	475 m (1560 feet)
Penstock Diameter:	200 mm (8 inch), mainly PVC
Intake:	Concrete box on channel bottom, steel top grillage for water inlet
Powerhouse:	Steel, self-supporting
Turbine:	Dependable Turbines, 375 mm (15 inch) diameter Pelton wheel, 1000 rpm, single nozzle with pulse control on needle valve.
Generator:	30 kW Kato, 1800 rpm, KAMAG AC 60 Hz 120/240V, single phase 2 bearing.
Governor:	Thomson and Howe load control type. A hydraulic hand pump is used initially to pressurize the deflector servo system and allow the turbine startup manually before control is transferred to the governor. (This is a cold or black start, and provision for startup must always be considered in a turbine). Hydraulic servo regulates water to turbine based on water supply.
Transmission Line:	2300 volt buried cable in PVC conduit

5. Project Summary - Douglas Power Plant (Cont'd...)

Protection and Monitoring:	Under/over frequency Under/over voltage - overcurrent - needle valve spring loaded and piston regulated to close slowly in the event of power loss or oil pressure loss.
Backup Power:	- 50 kW Diesel - not synchronized.

6. Project Cost.

The project was built for a fixed price of $128,000 including labour, equipment, materials, and final design for the intake, penstock, powerhouse, turbine, generator, governor and powerline. The laundromat/energy recovery building was built by the same company under a separate contract. Although a detailed cost breakdown was not available, the components could be assumed to cost the following, based on their relative materials contents.

Intake/Access	$ 25,000
Penstock	40,000
Powerhouse	15,000
Powerline	20,000
Equipment	20,000
Sediment Tank	8,000
	$128,000

At 12% financing, $3000 per year maintenance, and 20 kW average usable generation, the project has a long term cost of power of 10.8¢/kWh compared with about 15¢/kWh for diesel at the same location.

7. Further Information

The project could be visited with prior arrangement by contacting the Vancouver office of Indian and Northern Affairs. Technical details are available from the manufacturer, Dependable Turbines Ltd, 461-3121.

4.7 WESTON SHAKE AND SHINGLE MILL - 90 kW

1. Background

Gordon Weston's hydro project, completed in 1981, supplies power to a shake and shingle mill and residence. It is located close to Mulvehill Creek, about 15 miles south of Revelstoke. The hydro project was built almost entirely by hand and, with a used turbine, generator, switchgear and used steel pipe, the cost of the project was extremely low.

2. Design and Layout

The source of water is Mulvehill Creek, which has a drainage area of 17 square miles and an elevation range from 8963 feet (Mount Begbie) to 1500 feet. The average annual precipitation over the catchment is over 43 inches based on Revelstoke records, and assumed higher precipitation in the mountains.

Rolf Webb, a contractor and supplier from Trail, laid out the project and put together package of used equipment, which included a turgo impulse turbine, a generator, switchgear and 420 feet of 16 - inch diameter steel irrigation pipe.

Water is taken from the creek at the head of a waterfall about 100 feet high. The water is diverted into a wooden flume by suspending one or two 20-foot lengths of 24-inch diameter corrugated steel pipe in the flow (see Fig. 4.7). This method does not require a permanent structure in the creek, and it provides a flexible intake which can pick up water from different parts of the stream as the water level changes. The 30-foot long flume leads to a sediment tank 6ft x 12ft x 8ft deep made of 2 in x 6 in lumber nailed flat. A horizontal wooden grill prevents rocks larger than about 3 inches passing into the tank, and any sand or smaller gravel that gets into the tank can be cleaned out from the bottom of the tank by opening a wooden slidegate. The 16-inch steel penstock is built into the downstream side of the tank, and a wire mesh prevents organic debris entering the pipe. The penstock has welded joints and is laid on the ground or on wooden supports.

The powerhouse is a wood frame structure with a concrete floor and machinery foundation. There is a 1½ cubic yard concrete anchor block for the penstock just inside the powerhouse. The turbine is a Gilkes and Gordon turgo impulse wheel made in 1946. Its design specifications and present operating characteristics are as follows:

		Design	**Operating**
net head:	feet	200	130
rated output:	hp	254	140
rated speed:	rpm	512	512

The governor, mounted on the shaft inside the flywheel, operates the jet deflector through a direct linkage. Flow is controlled with a hand-operated inlet gate-valve and a hand-operated spear-valve. The nozzle is 6 inches in diameter.

The 100 kW generator is belt driven.

Power is transmitted at 460 volts, 3 phase, on a wood pole line for about one-third mile to the shake and shingle mill and residence.

3. Construction

Most of the construction work was done by Gordon Weston. There is no road access to the pipeline or intake, and help was used to pull the lengths of steel pipe up the hill using a fencing "come-along". Sections of pipe were laid out on the ground or on simple wood supports, and the joints were cut to shape and welded using an oxy-acetylene torch.

The only problem during construction was the transportation of materials up the hill - the pipe, the oxygen and acetylene tanks, the drill for rock blasting, and the lumber and other materials for the sediment tank.

4. Operating Experience

The operation of the turbine and generator is controlled by a combination of actions: setting base loads, manually operating the spear-valve on the turbine, and the action of the governor on the jet deflector. Base loads such as lights, fridge, freezers and space heaters (totalling about 35 kW) are left on to keep a load on the generator and keep the turbine running. The spear valve is adjusted so that the turbine and generator are running at slightly overspeed (about 525 rpm) and over voltage (about 475 volts), with the jet deflector deflecting part of the flow away from the buckets - this is achieved by having extra heavy springs on the governor. If the load increases - when the mill machinery is turned on - the governor moves the jet deflector to allow more flow onto the buckets to maintain the correct speed of the turbine and generator. This method works at present while the mill loads are still small. However, the owner plans to install an electronic load control governor which will be needed when the mill is in full operation.

The powerplant has been operating satisfactorily since it was installed, except for the failure of a babbit bearing on the turbine, which was replaced with a roller bearing. Brushes on the generator have also been replaced.

5. Project Summary - Weston Shake and Shingle Mill

Completed:	1981
Capacity:	90 kW
Gross Head:	136 feet
Intake:	40 feet of 24-inch diameter corrugated metal pipe in creek; 15 feet of rock channel; 30 feet of wooden flume; wooden sediment tank.
Penstock:	420 feet of 16-inch diameter steel irrigation pipe, welded joints.
Powerhouse:	14 x 16 ft wood frame superstructure with concrete floor and machine pedestal.

5. Project Summary - Weston Shake and Shingle Mill (Cont'd...)

Turbine:	Gilkes and Gordon turgo impulse wheel; design output 254 hp at 200 feet net head; operating maximum output 140 hp, 133 feet net head; 498 rpm; shaft governor operating jet deflector; manual spear valve on 6-inch nozzle.
Generator:	Electric Machine Co. 100 kW, 460 volt, 3 phase; belt driven.
Transmission Line:	One-third mile, wood poles, 460 volts, 3 phase.
Backup Power:	9.5 kVA diesel.

6. Project Costs

The major cost item was $7000 for the used turbine, generator, switchgear and steel pipe. There are no records of the other costs; out-of-pocket costs (excluding the owners labour) have been estimated and are shown in the table below.

ESTIMATED PROJECT COSTS

1.	Used turbine, generator, switchgear and pipe: lump sum f.o.b. Trail	$ 7,000
2.	Transportation of used equipment to site	1,000
3.	Transmission Line - materials and construction equipment costs	4,000
4.	Powerhouse - all materials including concrete	2,000
5.	Intake sediment tank, flume, corrugated pipe, materials and equipment rental for rock blasting	2,000
6.	Transformers and miscellaneous electrical materials and equipment	1,000
	Total out-of-pocket costs	$ 17,000
7.	Owners labour: 8 months @ $10 per hour	13,000
	Total project cost	**$ 30,000**

This project, at $300 per kW of installed capacity in 1981, is an example of very inexpensive small hydro.

7. Visitors to the Project

Visitors who wish to see the hydro project should contact Gordon Weston by radio phone N425 296 on Revelstoke Channel YJ. The site is only accessible in the summer.

4.8 THREE VALLEY GAP HYDRO - 150 kW

1. Background

This hydro project, completed in 1982, supplies power to the Three Valley Motel, about 5 miles from the plant. Two aspects of the project are particularly interesting: the use of centrifugal pumps in reverse as turbines, and the underwater transmission line cables in Three Valley Lake.

2. Design and Layout

The project is designed to have an ultimate capacity of 400 kW, but only one generator with a capacity of 217 kW is presently installed (March 1986) and the peak load is 150 kW. Much of the layout of the project was decided at the time of construction, as described in Section 3.

The source of water is Wap Creek which has a basin area of about 24 square miles and an estimated average flow of 60 cfs. The lowest flows occur during the winter, normally from November to March, when the plant output is reduced to about half its normal output. Low flows also often occur in August or September but, normally, these low flows do not limit the plant output.

The intake is located at the top of a waterfall about 90 feet high. Water is drawn off the side of the creek into a 15-foot long channel which leads to a concrete intake tank about 30 x 15 x 12 feet deep. A 6-feet high baffle wall in the tank prevents bedload - rocks, gravel and some sand - from entering the penstock, and a 16-inch diameter cleanout pipe located at the lowest part of the tank allows most of the accumulated bedload to be washed out. Horizontal steel rails, installed about 9 inches apart at the upstream end of the intake channel, prevent large rocks entering the intake tank. A metal screen over the entrance to the penstock intake prevents debris entering the penstock.

The penstock consists of 30-inch diameter, 3/8-inch thick, used steel pipe, welded in place and buried. All the sections of the pipe are bends, selected to minimize excavation by avoiding large rocks and also to provide anchorage down the slope.

The powerhouse was designed to be vandal-proof: it is a reinforced concrete structure excavated into the hillside and covered with earth. Inside the powerhouse a 30-inch diameter manifold pipe runs along the back wall. From the manifold separate pipes lead to five centrifugal pumps, of various sizes, working in reverse as turbines. Figure 4.8 shows the pump layout. Belts from each pump drive a common shaft which in turn is belt-connected to the generator. In this way several combinations of pumps, running at different speeds, can be used to drive the generator.

The flow to the pumps is uncontrolled for normal operation, and each pump has an inlet butterfly valve which closes automatically if the load is lost. Governing is provided by electronic load management (see below).

The pumps were bought used: the two Bingham-Willamette pumps (see Project Summary table in Section 5) came from the MB pulp mill at Powell River, and the other two pumps came from salvage yards in Vancouver.

The Stanford 217 kW generator was bought from Simson-Maxwell: as it was old stock, probably because of the low 208 volt 3-phase rating, it was purchased at a reduced price, and a duplicate was purchased as a spare.

The voltage is stepped up to 7200 volts at the powerhouse and transmitted 3 miles to Three Valley Lake on a wood pole line. From there three separate submarine cables run along the lake bottom about 100 feet below the surface. The cables are rated at 15 kV, although the present voltage is only 7.2 kV.

The electronic load control governor installed at present (March 1986) has a power handling capability of 120 kW. This is being upgraded to 360 kW. The following loads are controlled by the load control governor: all space heaters in the motel hallways, restaurant, office, etc. (except individual heaters in bedrooms); waterheaters and swimming pool; and a 60 kW heat dump to the creek at the powerhouse. Loads that are not controlled by the governor are as follows: lights, individual bedroom heaters, washers and driers, and the kitchen range.

3. Construction

Construction was done by the owner, his family and employees, and additional labour, construction machinery and a welder were hired at day rates. Construction started in September 1981, but only about 3 weeks of work was accomplished before winter. A mile of access road was built to the powerhouse and intake sites. A trench for the penstock was excavated, and then surveyed so that suitable lengths of used pipe could be bought. The pipe was placed in the trench, welded up and covered. Excavation and formwork for the powerhouse was completed but no concrete poured in 1981. Work started again in May 1982. The powerhouse was completed and the pumps were installed; plumbing fittings, drive shafts, pulleys and bearings were bought to fit the layout as it evolved. The operating speed of the pumps, which had to be decided before the drive shafts, pulleys and bearings were bought, was determined as half the speed of the pumps running full open without load.

Finally the intake channel and sediment box were built. The plant went into operation in December 1982.

4. Operating Experience

There have been no major operating problems since the plant was built. The original cheap drive-belts for the generator only lasted 6 months; they were replaced with good quality belts and have lasted over 3 years.

At times of high flows, large quantities of sand, gravel and large rocks were washed into the intake sediment tank. The large rocks and much of the sand and gravel had to be removed by hand from the top of the tank. The horizontal rails at the inlet to the channel were installed later to prevent large rocks entering the tank.

The number of pumps operating varies through the year, depending on the flow in Wap Creek and the load demand. Normally, a combination of a 12-inch and a 14-inch, or a 12-inch and a 16-inch pump can meet the peak load of 150 kW. During the winter low-flow period (November to March) the small 12-inch pump is normally used. In November 1985 during the unusually cold weather, less than 20 kW was generated because of a combination of extremely low flows and the fact that the 16-inch pump was being used at very low efficiency.

5. Project Summary - Three Valley Gap Hydro

Completed:	1982
Capacity:	150 kW
Gross Head:	110 feet
Intake:	Channel 15 feet long, leading to concrete tank 30 x 15 x 12 feet deep, with baffle wall and 16-inch diameter cleanout pipe.
Penstock:	640 feet of 30-inch diameter steel pipe (gas pipe) 3/8-inch wall thickness; welded; buried.
Powerhouse:	Buried, reinforced concrete, 20 x 24 x 10 feet high.
Turbines:	5 centrifugal pumps, running in reverse, in various combinations:

Manufacturer	Inlet Diam. ins.	Design as Pump		Flow gal/min	Operating as Turbine	
		Head ft	Speed rpm		Head ft	Speed rpm
Bingham -)	12	175	1,160	6,000	110	585
Willamette)	16	200	1,160	12,000	110	585
Worthington	14	152	-	-	110	610
-	12	-	-	-	110	-

Generator:	Stanford, 217 kW, 208 Volt, 3-phase, 1800 rpm. Duplicate as spare.
Governor:	Thompson and Howe electronic load control with 60 kW heat dump into creek.
Transmission Line:	3 miles, 7200 volts, 3-phase, wood-pole construction; plus 8000 feet of submarine cable - 3 separate cables, #2 A.W.G. copper, metallic armoured, 15 kV each.
Standy Power:	2 Caterpiller diesel electric units, 50 kW and 125 kW.

6. Project Costs

Estimates of project costs are shown below:

	Materials $	Construction Machinery and Labour $	Total $
Intake:	5,000 (concrete)	25,000	30,000
Penstock:	10,000 (used steel)	30,000	40,000
Powerhouse Building:	5,000 (concrete)	10,000	15,000
Turbine/ Generator:	10,000 (used pumps, new generator)	15,000	25,000
Overhead Transmission line, Transformers, Switchgear:	80,000)	60,000	180,000
Submarine cable:	40,000)		
Totals	**150,000**	**140,000**	**290,000**

The capital cost of the plant is $1930 per kW of installed capacity.

The annual maintenance and repair costs are estimated to be about $6,000 per year. Assuming an interest rate of 12% on borrowed capital and an average annual power output of 300,000 kW.h, the energy cost is 14.5¢/kWh. This compares to 15¢/kWh for the cost of diesel fuel only for standby power. However, there is potential to double the generation for a small increase in cost.

7. Visitors to the Project

People wishing to see the project should phone Gordon Bell, at the Three Valley Gap Motel: Telephone No. 837-2109.

4.9 MAC HYDRO #1 AND #2 - McDONALD RANCH & LUMBER LTD
30 kW and 400 kW

1. Background - Mac Hydro #1

The McDonald's ranch and sawmill is located near Roosville, BC, about 65 km southeast of Cranbrook on Highway No. 3. Doug McDonald runs the sawmill and his brother Andy operates the cattle ranch. Their father built the first hydro plant on the ranch in 1928 and the ranch has generated its own power for the mill and several houses since that time.

The first hydro plant took water from Rainbow Creek under a head of about 650 feet, and powered a 9 kW d.c. generator, a grain grinder, sawmill, shingle mill and woodsaw. In 1950 a larger turbine was installed to operate a 60 kW alternator and a larger sawmill. Then, in 1982 the 60 kW alternator was replaced with a 100 kW alternator, and an electronic load control governor was added.

A new larger hydro plant - Mac Hydro #2 - was built on Phillips Creek between 1982 and 1984, and this plant now supplies all the power needed at the sawmill and on the ranch. The generator in Mac Hydro #1 has been changed to a 40 hp induction motor which feeds power into the BC Hydro grid earning an average of $350 a month.

A summary of Mac Hydro #1 project components is given under the heading: 5. Project Summary. The rest of what follows refers to the new plant, Mac Hydro #2.

2. Design and Layout - Mac Hydro #2

The project was designed by Doug McDonald, using his previous experience with the first plant and help from turbine manufacturers. He knew that for most of the year there was enough flow in Phillps Creek to generate about 150 kW. Flows had been measured in Phillips Creek by Water Survey of Canada for 10 years during the period 1914 to 1931; the minimum daily flow was 5.5 cfs and the lowest monthly flow 6 cfs.

A concrete intake structure has been built on Phillips Creek a few hundred feet upstream of a waterfall to create a small headpond (see Figure 4.9). The walls of the structure are 8 feet high, 12 inches thick and reinforced. The water level in the headpond is controlled by wooden stoplogs set in a 12 foot wide sluice way. The intakes for the 16 inch diameter penstock and 12 inch diameter irrigation pipe are set into the concrete headwall to the right (looking downstream) of the sluiceway. Trashrack grillages and slide-gates are provided for both intakes (see Figure 4.9). There appears to be very little movement of bedload (gravel and boulders) in Phillips Creek, and this intake design works well.

The penstock consists of 2000 feet of 16 inch diameter used steel gas pipe from Alberta, with welded joints, laid on the ground without supports or concrete anchors. The lower 100 feet is buried to form an anchorage. This buried pipe includes a 45^{o} vertical bend, and a flexible coupling (Dresser coupling) which allows some differential movement between the penstock and the powerhouse.

The powerhouse is a 22 x 24 x 12 feet high, wood frame building with concrete floor and 4 feet high concrete pedestals for the turbine and generator bearings.

The turbine is a 400 kW Pelton wheel made by Water Power and Machinery, Montana, which drives a used General Electric 750 kVA generator on a common shaft running at 225 rpm. The generator, made in about 1935, is larger than needed at present and its output is limited by the turbine. A voltage regulator, frequency guard, static exciter (for the generator), and field forcing relay for starting the generator were made by Thompson and Howe. The turbine-generator unit is governed by an electronic load control system, using three triacs (variable loads) and twelve 5-kW water heaters as load dumps for excess power. The jet deflector on the turbine is also part of the governing system; it operates if the frequency exceeds the set limits of 55 to 64 cycles per second. The nozzle spear valve, moved by a reversible electric motor, operates automatically a fixed amount for each 30 kW change in load.

Power is generated at 2300 volts and transmitted at the same voltage for about 2 miles to the load centre at the sawmill and nearby houses.

3. Construction

All the construction work and the installation of the machinery was done by the McDonald brothers and their sons. Between them they had considerable construction, mechanical and electrical experience, having upgraded the old hydro plant several times, and built several houses, a sawmill, and other buildings on the ranch.

The intake site was prepared using the Cat and backhoe. The forms were built, and the concrete was brought in by ready-mix trucks: 16 cubic yards for the foundation slab and 12 cubic yards for the walls. The penstock pipe was welded into 100 foot lengths at the powerhouse site then dragged up the hill with the Cat.

The development of the turbine-generator unit is interesting. The used generator was purchased first; then the turbine runner was made to have an output of 400 kW at the rated speed of the generator; and finally, a 10-inch diameter shaft forging was machined to fit the turbine runner and the flange on the generator. Doug McDonald made the turbine casing and installed the machinery.

4. Operating Experience

The plant has provided power for the mill and houses since April 1984. There is no record of the kilowatt-hours generated; the estimated average output is about 150 kW or 1.3×10^6 kWh per year. Downtime has been less than 1 percent. The only problem has been the formation of ice in the upper part of the pipeline which was not covered during the winter of 1984 - 85. This upper part of the penstock has now been covered with earth and no freezing occurred in the winter of 1985 - 86.

5. Project Summary

Mac Hydro #1

Completed:	1928; upgraded in 1950 and 1982.
Capacity:	40 hp at present; an alternative 100 kW alternator is available.
Gross Head:	600 feet.
Intake:	3 feet high earth dam with 36 inch diameter culvert, and 8 inch diameter penstock with trashrack.
Penstock:	2500 feet steel pipe, 8-5/8 inch outside diameter, 1/8 inch thick, above ground.
Powerhouse:	14 x 20 x 8 feet high wood frame with concrete floor.
Turbine:	100 hp Canyon Industries Pelton, 24-inch diameter, 900 rpm.
Generator:	40 hp induction motor run as generator to supply power to BC Hydro grid; 220 volts one phase.

Mac Hydro #2

Completed:	1984
Capacity:	400 kW
Gross Head:	435 feet

Mac Hydro # 2 (..Cont'd)

Intake:	Concrete, 8 feet high walls, 12 feet wide sluiceway; 16 inch diameter penstock and 12 inch diameter irrigation pipe cast into intake walls; trashrack and slide gate on penstock intake.
Penstock:	2000 feet long, 16 inch diameter used steel gas pipe (wall thickness: 1000 feet of 1/4 inch, 1000 feet of 3/8 inch); upper 1000 ft covered with earth and lower 100 ft buried in trench, remainder above ground; flexible (Dresser) coupling just upstream of powerhouse.
Powerhouse:	22 x 24 x 12 feet high wood frame structure with concrete floor, tailrace and pedestals for turbine-generator bearings.
Turbine:	400 kW Pelton type made by Water Power and Machinery Co., Montana, 77 inch pitch diameter, 225 rpm; 4½ inch diameter nozzle; jet deflector; spear valve.
Generator:	600 kW used General Electric generator 2300 volt, 3 phase; on common shaft with turbine.
Loads:	Planer 75 kW motor; sawmill 140 hp; houses about 50 kW.
Governor:	Electric load control system.
Transmission Line:	10,000 feet wood-pole, 2300 volt, 3 phase; stepdown to 480 volts at mill, 220/110 at houses.
Backup Power:	None.

6. Project Costs

Mac Hydro #1

There are no costs available for the original plant. When the plant was upgraded in 1974 the 8 inch diameter pipe cost $1.70 per foot f.o.b. Calgary; the Pelton wheel cost $2500 in 1980. About $10,000 has been spent in the last 10 years on upgrading.

Power is sold to BC Hydro at 4¢/kWh. An average of about 12 kW is presently being sold.

Mac Hydro #2

Approximate project costs are listed below. The labour costs are for the McDonalds' labour charged at a rate of $10.00/hour.

	Materials $	Labour $	Total Cost $
Intake	4,000	3,000	7,000
Penstock (used)	14,000	6,000	20,000
Powerhouse building	5,000	4,000	9,000
Turbine/Generator Equipment	19,800	2,000	21,800
Transmission line and transformers	12,000	8,000	20,000
Miscellaneous	5,000	-	5,000
TOTALS	59,800	23,000	82,800

Assuming a project capacity of 400 kW, a load factor of 50 percent, and an annual cost of 15 percent of the capital cost, the cost of energy is 0.7 ¢/kWh: this is extremely low.

7. Visitors to the Projects

Anyone with a genuine interest in small hydro who would like to visit the projects should contact Doug McDonald at 887-3472.

4.10 CLAYTON FALLS HYDRO PROJECT - 700 kW

1. Background

The Clayton Falls project was built by the BC Power Commission in 1962, and has a capacity of 700 kW. It is now owned by BC Hydro, and it supplies about half of the electrical energy for Bella Coola and the surrounding area which has a population of about 1500.

The rest of the energy comes from a 3600 kW diesel generating station in Bella Coola.

2. Design and Layout

Clayton Falls is a run-of-river project without a storage reservoir. Normally, the flow in the creek is more than enough to run the plant, but there have been times in the winter when the flow has been too low and the plant has been shut down.

The layout of the intake is shown on Figure 4.10. A concrete weir 80 feet long and about 20 feet high forms a headpond to divert water into the power intake. The intake has a coarse trashrack set parallel with the creek, a fine screen (1 in x 1 in) just upstream of the entrance to the pipe, and a slide gate at the upstream face of the pipe. Next to the power intake there is a 5-foot wide sluiceway controlled by a 5ft x 5ft slide gate; this is used to flush out gravel and bedload which accumulates in front of the power intake.

The penstock is a 30-inch diameter wood-stave pipe 1120 feet long laid on wood supports. About 600 feet upstream of the powerhouse there is a wood-stave surge tank 65 feet high and 6 feet in diameter.

The powerhouse is a steel frame, metal clad structure, 20ft x 50ft, with concrete foundations and tailrace. It has a 3-ton gantry crane for installing and repairing the machinery. The turbine is a horizontal Francis type made by Gilkes, rated at 1000 hp, 900 rpm, under a net head of 260 feet. The generator is a used General Electric machine from a plant near Nanaimo; it was originally rated at 500 kW and was rewound to a rating of 702 kW before it was installed at Clayton Falls. There is a flywheel between the generator and the turbine, and the unit is governed by a Woodward governor with an electric motor drive for the flyballs. Power is generated at 2400 volts, 3 phase, and is stepped up to 14,400/25,000 volts for transmission to the diesel station in Bella Coola, about 3 miles away.

3. Construction

The project was constructed by BC Power Commission construction forces. It is reported to have taken about a year to build; however, there are no readily available records of the problems and solutions that occurred during construction.

4. Operating Experience

The hydro plant generates about 5×10^6 kWh a year or an average of 570 kW. This output is high for a plant with a capacity of 700 kW, and it indicates that the plant is being run to displace as much diesel fuel as possible.

The plant requires little maintenance and has given 24 years of relatively trouble-free service. Problems have arisen at the intake where the trashracks have been blocked by frazil ice and anchor ice during cold spells, and where the pond has filled with bedload during floods. The icing problem has been lessened by raising the headpond water level 5 feet during the winter by installing flashboards. It is probable that the ice cover that forms on the headpond insulates the water from the cold air; and with the lower flow velocities in the pond most of the frazil ice attaches to the underside of the ice cover instead of flowing to the trash racks.

Large amounts of bedload - gravel and boulders - are washed down the creek during freshets, usually in the fall. Some of the bedload piles up in front of the power intake, restricting the flow into the penstock. Normally, each year, a backhoe or a cat is used to clean out the bedload in October or November after the freshettes. The sluice-way is also opened to sluice out bedload. The larger boulders - some greater than 6 feet across - flow over the weir and damage the concrete.

The plant is shut down, on average, about two weeks a year for maintenance, cleaning out the headpond or because of extremely low flows. However, in some years the downtime is only a few days.

5. Project Summary - Clayton Falls Hydro Project

Completed:	1962
Capacity:	700 kW
Intake:	Concrete weir 20 feet high, 80 feet long; concrete sluiceway 5 feet wide; concrete intake with coarse and fine screens and 4ft x 4 ft slide gate.
Penstock:	200 feet of 4-feet diameter steel pipe; 1120 feet of 30-inch diameter wood-stave pipe.
Powerhouse:	Steel frame structure, 20 x 50 feet, metal siding and roof; concrete foundations.
Turbine:	1000 hp Gilkes Francis type 900 rpm, with flywheel.
Governor:	Woodward mechanical type with electric drive to flyballs.
Generator:	700 kW Westinghouse, 1380/2400 volts, 3 phase.
Transmission Line:	From Clayton Falls plant to the diesel plant: 3 miles, wood-pole, 14,400/25,000 volt, 3 phase.

6. COST SUMMARY

The total project cost was less than $1 million. However, the exact cost, or a breakdown of the cost is not readily available.

4.11 TENNENT CREEK HYDRO PROJECT - 3000 kW

1. Background

The 3000 kW Tennent Creek Hydro Project is located in Strathcona Provincial Park near the southern end of Buttle Lake. It serves the Westmin Mine complex, which consists of a hard rock mine, mill, concentrator and related support buildings, such as office, work shops and some residential units. Most of the work force is transported from Campbell River each day, and the power use is over 90% industrial.

The project was built by Western Mines Ltd to serve the mine development when it first opened. Since 1966 the plant has supplied about 45% of the energy needs of the mine. A recent mine expansion necessitated the construction of a larger project - the 8.5 MW Thelwood Creek project.

Back-up power is provided with 9 x 656 kW Cat diesel generators which supplement power in low flow periods and during peak demands which have reached 7 MW. Because of the size of the development, it is likely that some studies were done, but the exact nature is not known.

2. Design

The source of water is Tennent Lake, which is a sub-alpine lake tributary to Myra Creek. The lake storage has been supplemented by a concrete dam 50 feet high initially, which has recently been increased to 80 feet high. The dam crosses a rock cut about 150-200 ft wide. 3000 acre feet of storage is used and is supplemented by higher lakes which are siphoned with pumps when levels are low.

The intake structures are built within the rock abutment of the dam. A tunnel leads water from the lake, well below ice levels, through trash racks, then valves within the tunnel pass water through to the penstock. The penstock is steel, with thrust blocks and expansion joints, and is of conventional above ground construction. The penstock pressure is 900 psi at the powerhouse representing 2070 feet of head.

The powerhouse is steel frame with corrugated siding and an overhead crane. The building houses a 600 rpm Gilkes Pelton wheel with a single nozzle and jet deflector, coupled to a generator and using a Woodward mechanical governor. Power is transmitted 3/4 mile to the mine site at 4160 Volts in two underground cables. The power arrives at the switch room of the new concentrator building where it can be synchronized with the Thelwood Creek project and/or diesel generators. Operation of the plant has recently been converted to fully automatic, and is radio controlled. Water is withdrawn from the tailrace with two pumps which serve the mine's domestic needs.

3. Contracting and Construction

The Tennent Creek plant is 20 years old and the details of project construction are not easily retrievable. The project was let out in several contracts. There are more details available of the recent dam raising work, but this work is not representative of total project costs. The most unique construction detail (for a small hydro plant) is the use of the tunnel intake. Tunnels were also used in the Thelwood project for water transmission and for power transmission (using existing mine tunnels). Inspection was provided by the consultants, but details are not known.

4. Operating Experience

Tennent Creek has provided a service availability of 90% over the years, although full energy is not always available due to lack of water. The average annual output is 14,000 MWh. The annual load factor averages 50% with a range of 0 - 100% at times. The water-short periods are used for system maintenance to minimize the power loss. The Pelton wheel has been replaced once and a spare is kept on standby. Custom made babbit bearings are replaced about every 2 - 3 years.

Presently the combined Thelwood and Tennent Creek systems are under study to ensure that power output is maximized and diesel supplementation is minimized. Lake level monitors, rain gauges and a computer control optimize the delivery of power from both plants. The records generated will ensure that as much as possible of the available water is used.

Figure 4.11 compares the existing and potential developments in the area. The water availability problem of Tennent Creek is explained by its being sized with a flow 50% above the mean annual flow. This fact, combined with its storage reservoir means that Tennent Creek will still be an excellent peaking plant while operating with Thelwood.

5. Project Summary - Tennent Creek Hydro Project

Completed:	1966
Capacity:	3000 kW
Powerhouse:	Steel frame, overhead crane
Gross Head:	2070 feet
Turbine:	4000 kW Gilkes Pelton, 900 rpm.
Penstock:	9400 feet long steel pipe, 20 and 24 inches diameter, above ground except first 125 feet.
Generator:	3600 kW, 4160 Volts.
Governor:	Woodward mechanical
Intake:	Tunnel through dam abutment, trash rack, shutoff
Transmission Line:	3/4 mile, 4160V underground
Protection/Monitoring:	Vibration, temperature, penstock pressure, overspeed, underfrequency (on switchgear and governor). Radio/computer control.
Standy Power:	5.8 MW diesel.

6. Cost Summary

The age of the Tennent Creek project meant that cost records were not easily obtainable. However, cost records were available for the Thelwood Creek project, which is larger but of similar style to Tennent Creek. It has a higher head and a much longer penstock. The Thelwood Creek project cost approximately $2,500 per kilowatt to build. At a load factor of 60%, a 20 year amortization at 12% and a 2% allowance for maintenance, the average cost per kilowatt hour is 7.3¢. This compares with a diesel generation cost of 12 -15¢/kWh for fuel and lubrication only. Application of Class 34 accelerated write off provisions would further improve the economic attractiveness of the project.

Further information about the project may be obtained by contacting George Shields or Doug Stewart at the mine site at 287-9271.

SUPPLEMENTARY CASE STUDIES-1989

The following eight case studies represent projects that have been initiated since the first edition of this publication was produced. They include a remote private site, an innovative upgrade of an existing site connected to BC Hydro, two new sites connected to the integrated grid, a site connected to a remote BC Hydro grid and three very small residential systems. These sites are representative of the current trend in small hydro development in British Columbia, which is expected to be dominated in terms of dollar volume and capacity by projects that supply BC Hydro under new policy guidelines, a review of which is provided in Section 4.20. There are also likely to be numerous small, low cost residential systems installed in remote and non-remote areas.

4.12 MORESBY LAKE HYDRO PROJECT - 6 MW

4.12.1 Background

Moresby Lake is situated on the west coast of Moresby Island; the southernmost of the two main Queen Charlotte Islands. The project will supply power via a 50 km transmission line to BC Hydro's distribution system at Sandspit on the east coast. This is the first generation project to be built by an independent power producer (IPP) to replace electricity generated at one of BC Hydro's non-integrated diesel stations, and thereby reduce the cost of generation to the utility.

BC Hydro, in April 1986, invited IPPs to submit proposals for the supply of electricity to several of Hydro's non-integrated areas, including Sandspit and Massett. A proposal submitted by Highland Energy Systems Ltd (HES) for supply of electricity to Sandspit was selected in August 1986 as the most economically attractive to BC Hydro. Further feasibility studies were made and negotiations with BC Hydro continued on the basis of a "share the savings" principle, as defined by BC Hydro.

Queen Charlotte Power Corporation (QCPC) was formed in 1987 to take over development of the project and continue negotiations with BC Hydro. Negotiations were nearing completion in January 1988 when BC Hydro changed its policy. An agreement between QCPC and BC Hydro was formalized in June, 1988, with a pricing structure based on a fixed return on investment, operating and maintenance costs, and certain flow-through costs. The combined cost is competitive with existing diesel generation cost.

4.12.2 Design and Construction

The major components of the development include the reservoir at Moresby Lake, a 5m high control structure at the outlet of Moresby Lake, intake works, a 420m long 2.7m wide horseshoe shaped tunnel, 20m of 2.1m diameter penstock, a prefabricated concrete powerhouse, substations and transmission line. Salmon enhancement spawning and rearing channels will be built at the powerhouse discharge.

A rockfill dam with a concrete upstream face will be constructed at the lake outlet on solid bedrock. A low concrete weir, 30m long will form the spillway, which will be designed to pass the estimated probable maximum flood of 75 m^3/s.

The tunnel will be excavated in solid rock from the downstream end and will enter the lake below existing lake level to allow a drawdown of 5m for storage. The intake gate will be installed in a vertical shaft approximately 30m downstream from the upstream end of the tunnel.

A short length of penstock (about 20m) will feed water from the tunnel into the powerhouse. The upstream end of the penstock will be installed in the tunnel and grouted to the tunnel wall.

The powerhouse will be constructed in the Vancouver area as a free floating structure, then barged to the site. The substructure will be reinforced concrete 15m x 26m x 4m high, incorporating footings under the bearing walls so the complete assembly can be floated into position and anchored to a prepared foundation. The perimeter will be backfilled to complete the anchoring.

The metal superstructure will be pre-assembled on the substructure in Vancouver.

The powerhouse will contain three identical Francis turbines and generators, each with an output of 1900kW, with flywheels, governors, switchgear, station service transformer, and standby diesel generator for station service only.

A fourth Francis turbine and generator unit of 300 kW capacity will be used to generate power from flow released for fish mitigation requirements. The discharge from the turbine will support 3000 m^2 of spawning and rearing channels.

Power will be transmitted to Sandspit via a 50km, 69kV overhead transmission line, with step-up and step-down substations at each end. The line from Sandspit to Peel Inlet (40km) will be accessible by road. The remaining 6km of line will traverse extremely rugged terrain with long spans between mountain ridges.

Construction of the project began in early December 1988. The project is targeted for completion in the spring of 1990.

4.12.3 Project Summary - Moresby Lake Project

Expected Completion:	Construction started December 1988; completion expected Spring 1990.
Capacity:	6 MW
Gross Head:	100 m
Tunnel:	2.7m horseshoe, 420m long
Penstock:	2.1m diameter steel, 20m long
Intake:	Tunnel entrance on lake bottom; intake shaft 30m downstream from lake contains 2m x 2m slide gate; prefabricated metal screen over tunnel entrance.
Powerhouse:	15m x 26m x 4m high prefabricated reinforced concrete substructure capable of being floated to site; prefabricated metal superstructure with 30 ton overhead bridge crane preassembled on substructure.

Turbine/Generators:	Three 1900 kW Francis turbines and generator units with switchgear, and standby diesel (for station service only). One 300 kW Francis turbine-generator unit to generate power from fish water releases.
Transmission Line:	50km overhead line, 69kV; substations at each end.
Fish Spawning Channel:	3000 m^2 of spawning and rearing channels downstream of powerhouse.

4.12.4 Project Costs

The following itemized costs are based on estimates made in late 1987.

Site preparation and access	$	437,700
Storage dam		151,400
Tunnel and Intake		912,500
Penstock		60,000
Powerhouse		1,453,900
Substations		727,900
Transmission line		2,090,800
Fisheries enhancement		175,000
Residence, control building & communications		287,100
Construction equipment, construction camp, testing & commissioning		491,500
Engineering and surveys		218,000
Administration		306,600
Freight		464,700
TOTAL	$	7,777,100

The updated cost estimate made in March 1989 indicates a total project cost of $10 million for direct costs plus about $1.0 million for interest during construction, totalling $11 million ($1830/kW).

4.13 MAC HYDRO #1 - INCREASED OUTPUT TO BC HYDRO

Mac Hydro #1 has supplied power into the BC Hydro system through a 40HP induction motor for several years, as indicated in Section 4.9. In July 1988 Doug McDonald received permission from BC Hydro to increase the maximum output from Mac Hydro #1 to 75 kVA.

The flow in Rainbow Creek, which feeds Mac Hydro #1, is not sufficient to generate 75 kW year round, so McDonald decided to use excess power from his Philips Creek 400kW Mac Hydro #2 to maintain 75kW output to BC Hydro when the flow in Rainbow Creek was too low. However, large power swings caused by the headsaw of the sawmill run by the 400kW plant, required a "soft link" between the two plants to allow the 400kW plant to deliver power simultaneously to the sawmill and the BC Hydro intertie.

Figure 4.12 shows a schematic of the physical layout and a one-line diagram for the link between the two plants. The Rainbow Creek turbine is belt connected to a 2 ton flywheel which is connected to a 93kVA synchronous motor/generator, all running at 1800 rpm. This generator is also connected electrically to the 400kW plant. The synchronous motor/generator is belt connected to an induction motor/generator with a wound rotor, running at 1900 rpm. The output from this generator is controlled to 75 kVA by varying the resistance and hence the current in the rotor.

The Rainbow Creek turbine and the 400 kW plant try to spin the induction motor/generator at overspeed to generate current. If the induction generator speed slows to 1700 rpm (6% drop in speed), due to a sudden increase in load on the 400kW plant, the induction generator output goes to zero and the BC Hydro intertie is tripped.

The synchronous motor/generator, flywheel, induction generator and switchgear were formerly part of an uninterruptible power system for landing lights at Edmonton Municipal Airport.

Thomson and Howe Energy Systems did the electrical design and supplied the control equipment for this addition. Doug McDonald purchased and installed the equipment and did the wiring.

The total cost of the installed equipment, electronic controls, wiring and labour was about $20,000. This included an airbreak switch to the 14.5kV BC Hydro distribution line.

4.14 PTARMIGAN CREEK - 300 kW

4.14.1 Background

The Ptarmigan Creek project, 70km west of McBride, will be the first privately owned small hydro project to feed into the BC Hydro grid under Hydro's new policy to encourage small independent power producers (IPP's).

Roger Blagborne, a Prince George contractor, and his partner Roland Roleau, an electrical contractor, formed Robson Valley Power Corporation to develop the project. The dam is located on Crown land above two 50m high falls on a site first earmarked for power development around the turn of the century. In fact, related documents signed by former Premier and Lt Governor James Dunsmuir are still on file. The area around the falls is also designated for a park.

The initial installation will produce 300kW. Phase II of the project will develop the full potential of the site, estimated to be 2MW, within two or three years.

Roger Blagborne has been preparing for the project since October, 1987. His proposal was approved on a pilot basis in June 1988, following Hydro's first annual Electric Energy Forum when Hydro announced it was ready to negotiate with small power producers.

4.14.2 Project Layout

The project consists of a 1.5m high diversion dam across Ptarmigan Creek, about 50m upstream of the falls, a 700m long canal excavated in rock, two intake towers, and 700m of 508mm diameter steel penstock leading to the powerhouse at the bottom of the falls. The total head is 91m.

The dam consists of a double row of concrete construction blocks, each measuring 1.52m x 0.76m x 0.76m high and weighing about 2,000 kg, placed on a solid concrete base. Called Lock-Blocks, they were designed by United Lock-Block of Richmond, and made in Prince George using concrete left over from major construction sites in the area. The blocks cost $65 each, and the installed cost of the dam was $3,500, much less than the cost of a concrete pour on site. Excavation upstream of the dam provides 3.5m depth of water to impound frazil ice during winter and prevent it flowing into the canal.

The power canal leads off the creek just upstream of the dam and contours around the hillside away from the falls. The canal was designed to be 3m wide at the bottom by 3m deep, with near vertical walls. However, in many places it is considerably larger than this on account of poor blasting.

At the end of the canal stand two steel towers which house the intake to the penstock pipes. The towers are needed to protect the intake screens on the penstock from freezing temperatures in winter. Ice can be a problem in this northern climate.

The towers were made from a wrecked 16 m long by 2 m diameter steel rail tank-car, formally used to transport oil. It was cut in half and both halves stood on end on a concrete base.

A 1m diameter port has been cut in the upstream wall of each tower, and two penstock pipes will lead through the downstream wall of each tower. At present, for the initial 300kW phase, only one penstock pipe is installed in one tower.

The 4.9m x 6.0m powerhouse for the 300kW installation will have a concrete foundation, concrete block walls and a flat roof. This is a temporary structure and will be removed when the larger Phase II powerhouse is built in a nearby location.

The powerplant consists of two 250kW modified irrigation pumps running as turbines (manufactured by Cornell - 8TR3 F10X) each direct connected to a 325kW, 600V, 3 phase synchronous alternator (by Marathon Electric). The generators are rated at 325kW for continuous use at 115°C; however BC Hydro specifies a continuous use temperature of 80°C, at which temperature the generator output is 250kW.

Because the nearest BC Hydro powerline is only single phase, the turbines will initially be throttled back to produce 150kW each. When the plant capacity is increased to 2MW the powerline will be upgraded to three phase. Two conductors will be added to 30km of existing single phase line and a new 40km three phase line will be built to bypass a meandering single phase line (with frequent distribution taps) in preference to reconductoring.

Generating equipment planned for the Phase II installation will consist of 8 x 250kW, 2 x 100kW and 1 x 50kW, all Cornell pump/turbines.

Electrical control equipment will be supplied by Thomson and Howe Energy Systems (THES). It will be the second panel built by THES specifically designed for control and protection of synchronous generators that are connected to utility grids. A pre-programmed computer automatically starts, governs and shuts down the turbine-generator, and automatically synchronizes a running generator to the utility, and also disengages the tie if required. Built-in generator protection includes overcurrent, overspeed, underspeed, incomplete sequence, over and under voltage. Protection of the utility includes over and under frequency, over and under voltage on all three phases, voltage phase sequence, negative current sequence, reverse power and overcurrent.

The computer includes a main and backup synchronizer with disagreement error detection, which provides high reliability protection against incorrect synchronization to the utility.

4.14.3 Construction

Most of the design and construction of the project has been done by Blagborne and Roleau with assistance from family members. They began site preparation in July 1988 and before winter freeze-up had completed construction of the access road, dam, intake canal and intake towers.

Construction of the canal was most challenging, involving rock blasting and excavation and removal of significant amounts of overlying "gooey" clay.

The Cat had to work off mats to prevent it getting bogged down. The excavated clay slopes will be riprapped and berms will be formed to prevent erosion. The concrete blocks for the dam were placed in cold weather and each one had to be steam heated at the site to ensure a good bond with the poured concrete bonding layers.

4.14.4 Project Summary - Ptarmigan Creek Project

Expected Completion:	Construction started July 1988; completion of Phase I (300kW) June 1989
Capacity:	300kW Phase I
	2MW Phase II
Gross Head:	91m Phase I
	100m Phase II
Diversion Dam:	Phase I: 1.5m high made of concrete lock-blocks 1.52m x 0.76m x 0.76m high.
	Phase II: extra row of blocks to be added and concreted over to form spillway
Canal:	700m long, 3m bottom width by 3m deep, excavated in rock
Penstocks:	Phase I: 700m of 508mm diameter steel pipe
	Phase II: 3 more 700m, 508mm diameter steel pipes added to parallel Phase I penstock
Powerhouse:	Phase I: 4.9m x 6.0m concrete foundation, concrete block walls, flat roof
Turbine/Generator equipment:	Phase I: 2/Cornell 8TR3 F10X modified irrigation pumps operating as turbines with output capability of 250kW each, direct connected to a 325kW synchronous generator by Marathon Electric.

4.14.5 Project Costs

Itemized project costs are not available. The total estimated cost of Phase I (300kW) is $300,000 ($1000/kW) including an allowance of about $50,000 for unpaid labour. The pump-turbines (not yet delivered) are expected to cost about $10,500 each and the generators about $10,000 each.

The total expected cost of the Phase II 2MW development is $1.2 million ($600/kW).

4.14.6 Power Purchase Agreement

The agreement between BC Hydro and RVPC has a 20-year term and sets the price for power purchased in 1989 at 3.0¢/kWh. This will be reviewed on a regular basis. BC Hydro indicated that this first standard agreement paves the way for future planned purchases from small producers generating less than five megawatts. The issues resolved in negotiating the contract have assisted Hydro in developing practical connection requirements and a suitable form of agreement for other small producers.

4.14.7 Visitors to the Project

Anyone with a genuine interest in small hydro who would like to visit the project should contact Roger Blagborne at 560-5523.

4.15 STRATHCONA PARK LODGE - 75 KW

4.15.1 Background

Strathcona Park Lodge and Outdoor Education Centre is situated on the east shore of Buttle Lake, 45km west of Campbell River on Vancouver Island.

The Lodge and Outdoor Education Centre was started by Myrna and Jim Boulding in 1958 to teach outdoor recreation skills such as mountaineering, kayaking, canoeing and leadership to youths and adults. The Centre is a small community of twenty-five buildings housing up to 200 visitors, students and staff in the summer, and about 20 in winter.

Located about 15.5 km from a BC Hydro plant but 26.5 km from the nearest suitable BC Hydro distribution line, the Lodge has relied on a mix of diesel generated electricity, propane and oil for lighting and heating. Energy had always been a major operating expense, and by 1983 it had risen to $50,000 a year, about 10 percent of the total operating costs. A high voltage line is visible from the lodge about 3 km away across the lake.

A 75kW hydro plant was built in 1988 to replace the diesel generators and another 50kW unit will be added later to eliminate most of the propane and fuel oil used for heating.

Small hydro was first considered by Jim Boulding 1983. Baikie Creek (also known as Cedar Creek), 4 km from the Centre, with three small lakes, a 12 km^2 drainage area and 141 m of head, looked promising. Patrick Fawkes, an engineer, prepared a feasibility study for a project which included a small storage dam to provide year round power and a 150kW plant; the estimated cost was $260,000.

In November 1984, application was made to Energy, Mines and Resources Canada (EMR) for an Enerdemo grant. The project had excellent demonstration potential: there were about 18,000 visitors and students each year, the project would be easily accessible and it would be used at the Centre as an example of an independent alternative energy source for remote locations.

The project cost was up-dated in 1984 to $323,000. This would be financed with a $160,000 loan, $63,000 from the owner partly through the provision of labour and equipment for construction, and a contribution of $100,000 from the Enerdemo program.

The hydro plant was shelved for several years, following the untimely death of Jim Boulding (one of the owners) and the uncertainty of continued financing of the Centre.

Early in 1988, David Goggs, a private investor, set up Strathcona Power Limited to build the hydro project. The Enerdemo contribution was transferred to Strathcona Power and financing arranged.

4.15.2 Layout and Design

Most of the design was done by Colin Holt, except for the electronic control equipment which was designed and built by Thomson and Howe Energy Systems (THES). A number of other individuals donated their skills toward the design and completion of the project. The layout of the project is similar to that proposed in the feasibility study, except that the storage dam is not included. Flows in Baikie Creek reduce to a trickle in August and September most years. It is expected that there will not be sufficient water in the creek for the hydro plant for about three months each summer, at which time the diesel plant will be used.

A 2 m high by 15 m long diversion dam, built of rock-filled wire gabions, has a vertical concrete wall about 300 mm thick placed along the middle of the gabions to act as the impervious structure. A 305 mm diameter steel pipe, cast into the left end of the dam with a shut-off valve just downstream of the dam, forms the penstock intake. The penstock is 800 m long, 400 m of which is polyethylene from the dam down to a point where the gross head is 53 m, and 400 m of steel pipe down to the powerhouse where the head is 141 m. The penstock is buried for most of its length, with concrete anchor blocks at several vertical and horizontal bends. The powerhouse has concrete foundations, a large concrete thrust block surrounding the penstock in the upstream wall, concrete walls and timber roof. A used 75 kW turbine-generator unit is installed, with space beside it for a second 50 kW unit to be added later. The turbine discharges into Buttle Lake about 200 m south of where Baikie Creek flows into the lake.

The turbine is a 380 mm diameter Pelton wheel, built by Dependable Turbines in 1980 for a BC Forest Service camp at Camp Point, near Kelsey Bay on Vancouver Island. The design head for the turbine was 140 m, very close to the head at Strathcona, and it had a single nozzle and spear valve. The turbine-generator unit was used at Camp Point for about 2 years. David Goggs bought the unit in 1988 and had a second nozzle added to double the output.

Electronic controls, by THES, allow the hydro and diesel plants to run in tandem when the load exceeds the hydro capacity. The controls also allow the hydro plant to be started and stopped without affecting the power supply from the diesel plant.

Power is transmitted to the Lodge first through 160 m of underground cable running along the pipeline trench from the powerhouse up the hillside to the transformers on the first transmission line pole, then via 4 km of wood-pole transmission line. Electronic load management controls have also been installed in eleven buildings at the Lodge to reduce the peak load and utilize more energy.

4.15.3 Construction

Construction work was managed by David Goggs and most of the labour and machine operators were Lodge employees. A welder was hired for the steel pipe joints and bends. Construction started in May 1988 with a backhoe and small Cat used to clear the pipeline route. A contractor excavated a trench for the pipe. The gabion dam was built mostly by hand in July and early August; welding of the steel pipeline started in August and continued through September; the powerhouse was built during September and October; and the transmission line was completed by the end of October. First power was generated in November 1988; a relatively quick completion.

4.15.4 Operating Experience

The plant operated intermittently for the first two months while minor electrical modifications were made to satisfy the electrical inspector.

It was found that the generator output exceeded 80 kW, but to ensure security of the equipment the turbine was kept throttled back to limit the generator output to 75 kW which is the maximum capacity of the load dump.

A full report of the initial operating experience will be prepared by the owner for EMR.

4.15.5 Project Summary

Completed:	November 1988
Capacity:	75 kW (nominal) with capability to about 90 kW; planned future addition 50 kW
Gross Head:	141 m
Intake:	1 m high rockfilled gabion dam, 15 m long with 305 mm diameter penstock built into left side
Penstock:	400 m of 305 mm diameter polyethylene (Sclairpipe), 400 m of 305 mm used steel pipe; all buried.

Powerhouse: 4.6m x 6.1m x 2.3m high concrete-block walls on concrete foundations

Turbine: 75 kW, 380 mm diameter Pelton-type by Dependable Turbines

Generator: 93.5 kVA

Backup Power: 30, 50 and 125 kW diesel generators at Lodge

Transmission Line: 4 km wood pole, 7200 volt, 3 phase; stepdown to 120/208 volts at Lodge.

4.15.6 Project Costs

	Materials	Labour	Total Cost
Intake dam	$ 2,040	$ 2,000	$ 4,040
Pipe & installation	51,830	15,250	67,080
Powerhouse	8,530	2,000	10,530
Turbine/Generator & installation	15,700	500	16,200
Electronic Control Equipment	13,370	500	13,860
Load Management Control	19,290	1,500	20,790
Transmission Line	42,500	17,530	60,020
Engineering & Design			10,970
Office, Travel, Food			13,080
Miscellaneous & Insurance			4,320
	TOTAL		$ 220,890

The output capability of the plant is over 80 kW, giving a unit cost of $2760/kW. If a second unit is added as planned, increasing the output to 130 kW for an additional equipment cost of about $30,000, the cost per kilowatt would be $2210/kW.

4.16 COATS HYDRO ELECTRIC - 150 kW

4.16.1 Background

Clyde Coats' 150kW hydro plant on Gabriola Island was built solely for selling power to BC Hydro through Hydro's integrated grid. Although two other small hydro plants were connected to the grid in 1983 - McDonald's Ranch (18kW) and Hasty Creek (37kW); they supply power surplus to their own needs and they were installed as part of earlier demonstration programs.

Negotiations for the sale of power between Coats and BC Hydro began in 1984. At that time Hydro had a power surplus and in the agreement signed in 1984 Coats was not allowed to bring his plant on line for four years. The negotiation process that Coats went through would not apply to new independent power producers (IPPs) wanting to sell to Hydro in 1989 or later. Hydro now has a new power purchase policy outlined in documents issued in December 1988. Requests for proposals for the supply of electricity to BC Hydro are issued by them at intervals, normally annually.

4.16.2 Design and Layout

The powerplant is located at tidewater, and is fed by runoff from a $25km^2$ catchment containing a small lake. Water flows from the lake through a channel blasted in rock to a 10m high concrete dam, which has a road across the top and a spillway. A 500mm diameter steel penstock runs 137m from the dam to the powerhouse, producing 55m of head. A 216HP Gilkes turgo turbine running at 514rpm, direct connected to a 200HP G.E. induction motor run as a generator are housed in a concrete powerhouse, with concrete walls, floor and roof.

Control and protection equipment were supplied by Thomson and Howe Energy Systems (THES). The control panel is a THES standard Product "H" computer unit designed for use with induction generators connected to a utility. It was initially designed for installations in the US and is now being used for connections to the BC Hydro grid.

Protection is provided for under and over voltage on each phase and under and over frequency. There are controls for automatic shutdown and startup in response to headpond water levels or transmission line faults. The computer also monitors overload on the line and reverse power (drawing current from BC Hydro).

The wood pole powerline connecting to the BC Hydro distribution line is 2.4km long, 25kVA, 3 phase.

4.16.3 Construction

The dam and powerhouse were built and the turbine was installed in the early 1950's, to produce power for a sawmill, but the plant was never used.

Some thirty years later the project was completed in three phases; the powerline was built in the summer of 1986, the penstock was installed in the summer of 1987, and the generator and controls were installed in the fall of that year.

Local labour was used as much as possible. The powerline poles were fully rigged with cross-arms and insulators prior to erection, then an off-island firm was brought in to string the wires.

The penstock pipe came in 12m lengths. Sections were joined and bends manufactured on a level area by a local welder. The completed sections were manoeuvred into place using a 955L Track Loader with backhoe. Part of the pipe had to be threaded through a culvert under a road and then down a sheer cliff. The pre-welded sections were sized to minimize the amount of welding needed once the pipe was in place, and expansion couplings were used at various intervals.

The main valve in the dam was replaced, along with intake screens which were constructed from stainless steel screens purchased from a pulpmill. The spillway was widened to allow the lake to be held at a higher level without fear of significant flooding in times of heavy rain.

4.16.4 Operation

Because of the small catchment, low annual rainfall of 900mm, and the lake's small storage capacity, the plant is expected to generate about 330,000 kWh for only about 4 months of the year.

After startup in January 1988, the plant ran for about 2 months and was then shut down because of lack of water; 1988 was a dry spring and summer. However, from November 1988 to January 1989 the plant has been running continuously with an average output of 132 kW.

4.16.5 Project Summary

Completed:	January 1988; dam and powerhouse built in early 1950's
Capacity:	150 kW
Gross Head:	55m
Storage Dam and Intake:	10 m high concrete gravity dam, free-overflow spillway, road across dam and over spillway; 508 mm penstock pipe built into dam with stainless steel mesh screen and valve.
Penstock:	508mm diameter, 137m long steel pipe with welded joints and bends plus several expansion couplings.
Powerhouse:	6.1m x 9.1m x 3.0m high concrete foundations, walls and flat roof.
Turbine:	216HP Gilkes Turgo, 514 rpm.
Generator:	200HP G.E. induction motor run as a generator, 575 volts 3 phase.
Transmission Line:	2.4 km long, 25 kVA, 3 phase, wood pole.
Protection & Control Equipment:	THES Product "H" computer unit plus custom designed switchgear panel; includes automatic startup and shutdown for turbine, over and under voltage and frequency protection, monitoring of line overload and reverse power.

4.16.6 Project Costs

No detailed project costs are available. However, Clyde Coats estimates that the total cost for building his project in the late 1980's would be $120,000 or $800 per kW.

This cost includes $10,000 for diversion using a 2 - 3m high dam instead of the 10m dam he now has, which would not have been built if he was building the project today.

Energy is sold to BC Hydro for 4.08¢/kWh, with a projected gross annual revenue of about $13,500 for the four months of the year when the plant is operating.

4.16.7 Visitors to the Project

Anyone with a genuine interest in small hydro who would like to visit the project should call Clyde Coats at 247-9350.

4.17 SMALL RESIDENTIAL SYSTEM - 1500 WATTS

4.17.1 Background

Darrell Hall's system near Cranbrook is the first known stand-alone AC induction generator to be installed. It uses electronic control and excitation equipment newly developed by Thomson and Howe Energy Systems (THES) through research and development partly financed by Energy, Mines and Resources Canada.

Normally, synchronous generators have been used for stand-alone generation. Now, less expensive and more easily available induction motors can be used as small generators.

4.17.2 Project Summary

Completed:	1989
Capacity:	1500 watts maximum; run at 700 - 1000 watts
Head:	110 feet gross head; 77 feet with two 0.9 inch nozzles; 102 feet with two 0.5 inch nozzles (low water)
Flow:	turbine designed for 225 USgpm (0.5cfs); 100 USgpm with two 0.9 inch nozzles
Turbine-Generator:	4 inch polyurethane Turgo turbine (by Energy Systems and Design), direct drive to 575 volt, 7.5HP, 3 phase induction motor (used), 1800 rpm; generating at 480 volts single phase only
Transmission (to house):	500 feet, 12 ga 500 volt, 2 conductors in 3/4 inch buried plastic pipe
Transformer:	3 KVA dry transformer, 480V - 120/240V
Controls:	Induction excitation controller (by Thomson and Howe Energy Systems) using capacitor bank; modified THES "JV" governor provides voltage and frequency control. Satisfactory for small appliances and resistance loads; not suitable for starting larger induction motors.
Loads:	Lights, small appliances, computer, stereo, small power tools
Auxiliary power:	4 kW gas generator to power motors such as saw, washer
Nearest power:	BC Hydro grid, 4 to 5 miles

4.17.3 Project Costs

Penstock	$ 1,200
Turbine-generator	850
Transmission line	250
Transformer	270
Controls	900
TOTAL	$ 3,470

4.17.4 Enquiries about Project

Write Darrell Hall, SS1, Site 5, C87, Cranbrook, BC V1C 4H4; no telephone.

4.18 SMALL RESIDENTIAL SYSTEM - 210 WATTS

4.18.1 Background

Scott Mackenzie's system combines a domestic water supply with a small power system using high voltage (110 volts) DC and batteries. It is located 5 miles from Tyaughton Lake, near Goldbridge.

4.18.2 Project Summary

Completed:	1985
Capacity:	210 watts (approx 30% overall efficiency)
Gross Head:	230 feet
Penstock:	2 inch dia. PVC Class 160, 1700 feet long, buried 4 feet : installed for the domestic water supply
Turbine-generator	4 inch dia. polyurethane Turgo runner, direct drive to permanent magnet 3 phase AC generator (complete unit by Energy Systems and Design, formerly Powerhouse Paul's Stream Engines)
Flow:	18 USgpm (0.04cfs) with single 1/4 inch nozzle; water source is spring at El. 3500 feet
Transmission:	200 feet No.6 AWG aluminum, 3 conductor
Battery:	108 volts DC nominal (nine 12 volt batteries, 90 amp-hour, Varta RV type)
Regulation:	Diversion to dump load (light bulbs) at 132 volts)
Loads:	Automatic washer (modified for operation at 110 volts DC), lights, table saw, hand-held power tools, brooder lamp.

4.18.3 Project Costs

		Approximate Costs
Turbine-Generator unit	$	500
Transmission line conductor (scrap)		-
Battery		675
Regulation		75
Modification of washer to 110 volt DC		300
Replacement 110 volt DC motor for table saw		120
TOTAL	$	1,670

4.18.4 Enquiries

Information about the project can be obtained by writing to Scott Mackenzie, General Delivery, Goldbridge, BC V0K 1P0.

4.19 SMALL RESIDENTIAL SYSTEM - 500 WATTS

4.19.1 Background

The main feature of this system, owned by Linda Scheiber, is the stand-alone induction generator used in place of a synchronous generator normally used for stand-alone systems.

In fact, Scheiber's original system had a 24 volt single phase synchronous generator, which was replaced in 1988 with the induction generator. The new generator voltage is 200 volts, which is stepped down to 24 volts and rectified to DC for charging the battery.

Also part of the original project was a syphon intake made of steel pipe with rubber gasket joints. However, the gaskets leaked and the syphon frequently failed. After three years of unsatisfactory operation, the need for a syphon was eliminated by extending the pipe further upstream - 150 feet of PVC pipe was added for a gain of only 5 feet in gross head.

The advantage of using an induction generator is that a relatively inexpensive off-the-shelf induction motor can be used, which is brushless, has no rotating windings and is widely available. The excitation current can be supplied by capacitors connected across each phase output lines.

4.19.2 Project Summary

Completed:	Initial system completed 1985 Induction generator added 1988
Capacity:	500 watts (approx 30% overall efficiency)
Gross Head:	50 feet
Penstock:	180 feet of 6 inch dia. steel pipe (used) plus 150 feet of 6 inch dia. PVC pipe, not buried
Turbine-Generator:	4 inch dia. polyurethane Turgo runner (by Energy Systems and Designs) direct drive to a 3 phase, 200 volt, AC induction generator
Flow:	225 USgpm (0.5 cfs) with two 0.9 inch nozzles
Transformer:	3/200 VA transformers (for each phase) 200 - 24 volts; rectified to DC
Transmission:	600 feet of 1/0 aluminum, 2 conductors (for original 24 volt system) plus single strand No 12 copper
Battery:	24 volt, 360 amp-hour
Regulation:	diversion to load dump (heater) at 29 volts DC
Inverter:	24 volt input, 2500 watt continuous
Loads:	Refrigerator, chest freezer, automatic washer, vacuum cleaner, miscellaneous small appliances, stereo, lights, hand-held power tools.

4.19.3 Project Costs

	Approximate Costs
Penstock	$ 300
Turbine - Generator	850
Transformers (3 at surplus value)	100
Transmission line conductor (aluminum at scrap value) plus copper	140
Battery	600
Regulator	75
Inverter	2,800
TOTAL	$ 4,865

4.19.4 Enquiries

Further information about the project can be obtained by writing to Mrs Linda Scheiber, Box 421, Powell River, BC V8A 5C2.

4.20 BC HYDRO POLICIES ON POWER PURCHASES

4.20.1 Policy Status

In June 1988, BC Hydro announced that it would purchase power for its integrated system from Independent Power Producers (IPP).

Subsequently, in December 1988, BC Hydro provided information packages in the following areas:

- Information on Electricity Purchases from Projects greater than 5 MW.
- Information on Electricity Purchases from Projects less than 5 MW.
- Purchase of Electricity in Non-Integrated Areas.
- Related connection requirements at greater than 60 kV, and 35 kV and below.

These information packages have been followed up by:

- a Request for Proposals for the supply of electricity to BC Hydro at Fort Nelson in November 1988;
- a Request for Proposals for the Purchase of Electricity Supply and Load Displacement (Projects less than 5 MW) for BC Hydro's Integrated System planned for April 1989;
- a Request for Proposals for the Purchase of Electricity Supply and Load Displacement (Projects greater than 5 MW) for BC Hydro's Integrated System, in December 1988;
- a Request for Proposals for Supply of Electricity to BC Hydro at Bella Coola in March 1989;
- a Request for Expressions of Interest for Self Generation of Electricity in December 1989;
- a Request for Proposals for Supply of Electricity to BC Hydro at Telegraph Creek, Dease Lake, Atlin and Eddontenajon in March 1990.

BC Hydro has progressively made announcements of respondents or short list candidates in most of these areas.

Requirement for Power

The stated objective of BC Hydro is to minimize its cost of electric service. As the electricity surplus of the 1980's declines towards load resource balance in 1993, BC Hydro will require additional supplies which it proposes to obtain by purchasing energy directly from IPP's, purchasing conservation to reduce demand, improving efficiencies at its own plants or through coordination with neighbouring utilities, and by building new capacity of its own. British Columbia's electricity growth rate requires about 100 - 200 MW of additional average energy per year and it can be met by a combination of the supply/conservation techniques listed. BC Hydro has stated that it has no particular preference for the technology used for the power generation it purchases, other than it must not present any hazards to the existing system, and it must be the most cost efficient.

4.20.2 Opportunities for Small Hydro Projects

The new BC Hydro policies have provided a greatly increased potential for developers of small hydro projects. The usual definition of small hydro is less than 20 MW, however, for the purposes of BC Hydro contracts, there is a division at the 5 MW size. In September 1989, the Provincial Government required that all projects, regardless of size, be dealt with under the Energy

Project Certificate process. This requirement covers all referrals to concerned agencies and formerly only applied to projects larger than 20 MW.

a) Contracts for Projects Less than 5 MW

The recent experience by BC Hydro has shown that there is a significant transaction cost in a power sales contract, and this is proportionally higher with smaller projects. It is with this in mind that BC Hydro has decided to standardize contracts for projects less than 5 MW. BC Hydro recognizes that individually these projects will not have a large impact on the system, hence the risk of an incomplete project harming BC Hydro or its customers is negligible. Electrical safety standards, reliability, operations and service quality are important considerations to BC Hydro who will take less of an interest in the actual economic return of the project, placing that risk totally with the developer.

The payment mechanism is also simple, a flat 3.0¢/kWh beginning in the first year of production for all energy produced up to a maximum 5000 kW over a 20 year contract, with a maximum 3 percent annual escalator. The starting price is expected to rise in consideration of general inflation and the fact that BC Hydro will require new resources within a few years, making energy more valuable. The price is a function of BC Hydro's levelized short and long term values of electricity.

BC Hydro anticipated that up to 25 MW of contracted supply/conservation (under 5 MW) would be purchased in 1989, however they accepted 14 proposals totalling nearly 50 MW for further review. The call for proposals is expected to be repeated on a regular basis for a similar amount of power.

b) Contracts for Projects Greater than 5 MW

The date for receiving proposals for the larger size of project closed May 1, 1989 and up to 150 MW of energy supply or demand reduction projects may be awarded. By the spring of 1990 four projects totalling 280 MW were under negotiation, including one hydro power project. The contractual and payment terms are significantly different than for the under 5 MW projects. The reason for this is that the projects represent tangible increments to BC Hydro's system and their resource plan will depend on the power being delivered in accordance with the contract (but not before 1993). Hence technical and financial capability will be closely evaluated and a completion bond will be required. BC Hydro will use its costs of alternative capacity additions as a guideline for the maximum price it will pay for energy, [but the actual price for power will be modelled on a utility rate of return basis]. [The developer will receive a fixed rate of return on his investment, paid on the basis of firm energy, secondary energy and firm capacity]. Payment will be addressed in those categories consisting of an Investment Component (per kWh and per kW), an Operation and Maintenance Component (per kWh) and a Flow Through Component (per kWh) for direct costs which the developer has no control over, such as property tax, insurance and water rent. The contract will require commitments to the stated capacity, otherwise BC Hydro could re-assess the payment terms and significantly lower the rate of return paid to the developer.

Prior to signing any contracts, BC Hydro will enter a "competitive negotiation" process to ensure that it is receiving the least cost increments of power available. In the greater than 5 MW contracts, energy sources may include hydro, waste coal, cogeneration, gas turbine, wood waste or load displacement. Until a contract is signed, BC Hydro is under no obligation to the developers it negotiates with.

The two differing contract models may lead to some distortions in types of projects developed, especially in the 5 MW range. The fixed rate of payment may favour undersizing or staged development of some sites because of the risks inherent in the contracting process for projects larger than 5 MW. BC Hydro has indicated that it will not make judgements on the optimal use of a resource, but that it will allow the developer's business judgement to determine the optimal project size. BC Hydro has also accepted projects of larger than 5 MW capacity, for review in the under 5 MW category.

c) Contracts for the Non-integrated System

There are fewer development opportunities available in the non-integrated system because of the relatively low amount of capacity required, approximately 10 MW among 5 locations. The proposed contract model is similar to the greater than 5 MW contracts, because such projects will represent a major increment or all of the generation required at each site.

If BC Hydro is successful in obtaining proposals at each site, there will be no need for additional supplies in the BC Hydro non-integrated system unless some proponents only meet a portion of the total requirement.

4.20.3 Essential Steps in Developing a Hydro Power Project for Sale of Energy to BC Hydro

The development of a hydro power project for energy sale to BC Hydro involves all of the usual steps in major project development plus a few additional ones added by BC Hydro. Although the process is simpler for the under 5 MW contracts, the larger of these projects should involve many of the same elements as the over 5MW projects. Project values of 1 - 5 million dollars warrant a feasibility study and a financing plan, even though there is no requirement for a review by a financial advisor and BC Hydro plans a less thorough technical review, concentrating on interconnection requirements.. As sites get smaller, the inherent diseconomies of scale with reducing size can be offset by greater inputs of the developers's own labour and resources.

As noted above, BC Hydro will be primarily concerned with technical and financial capability of the greater than 5 MW projects. Although there are no rigid guidelines established, the usual requirement for technical capability will be met if the development team has a track record of similar projects, and provides a technical report for the project by a professional engineer, or the developer's own staff, if appropriate. The financial criteria must be met by having a financing plan that is supported with at least offers of funding from bona fide financial groups and is further supported by a letter from one of BC Hydro's selected financial advisors. The developer must arrange and pay for the services of the financial advisor. These technical and financial elements will form the basis of the exhibits that BC Hydro requires in the proposal. After the proposal is submitted, the developer will have to wait until BC Hydro first classifies the proposals for general acceptability, then ranks the proposals to establish a short list for negotiating priority. It is anticipated that 2 - 3 months will pass before an invitation to enter negotiations would be received. Thereafter BC Hydro may assess further charges to defray its costs.

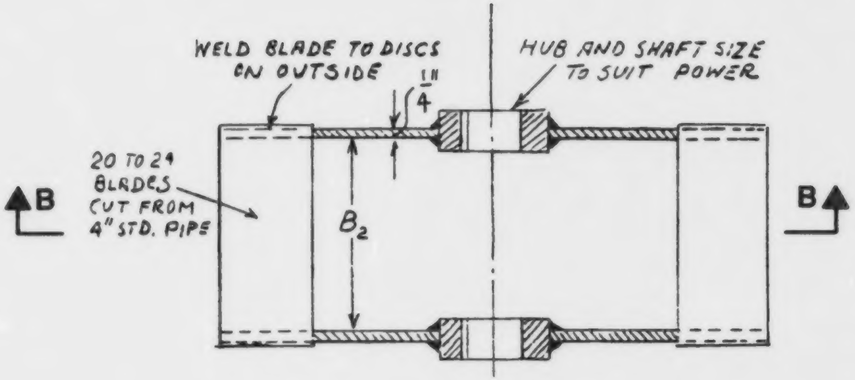
4.20.4 Additional Information

The latest information on requirements for projects and the status of the negotiating process may be obtained from:

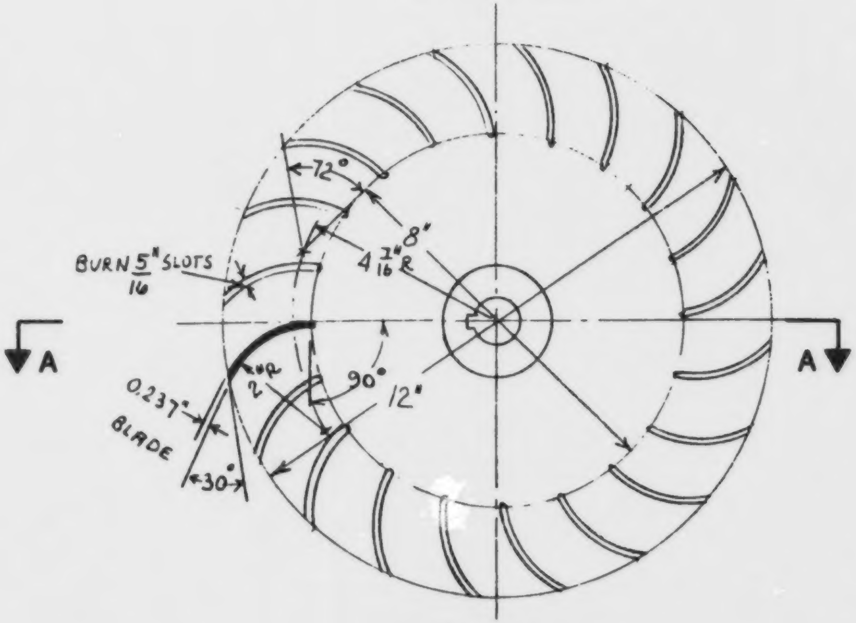
BC Hydro
Power Contracts
9th Floor, 1177 Hornby Street
Vancouver, BC
V6Z 2E9 Phone: (604) 663-2216

Cross Flow Turbine and Generator

Drawings reproduced from
"Low Cost Development of Small Water Power Sites."


WELD BLADE TO DISCS ON OUTSIDE
HUB AND SHAFT SIZE TO SUIT POWER
1/4"
20 TO 24 BLADES CUT FROM 4" STD. PIPE
B
B
B2

SECTION A–A

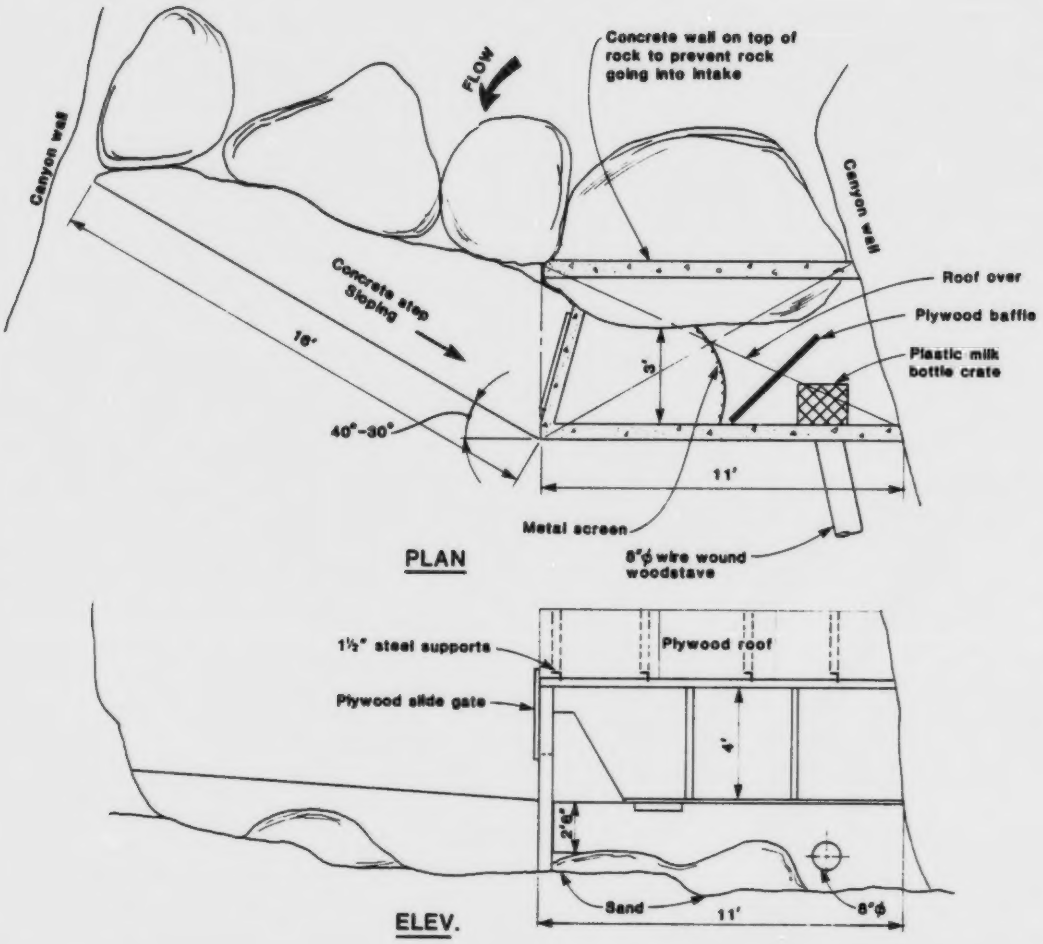

72°
8"
4 7/16" R
BURN 5/16" SLOTS
A
A
2 1/2 R
90°
12"
0.237"
BLADE
30°

SECTION B–B

12"ϕ CROSS FLOW RUNNER

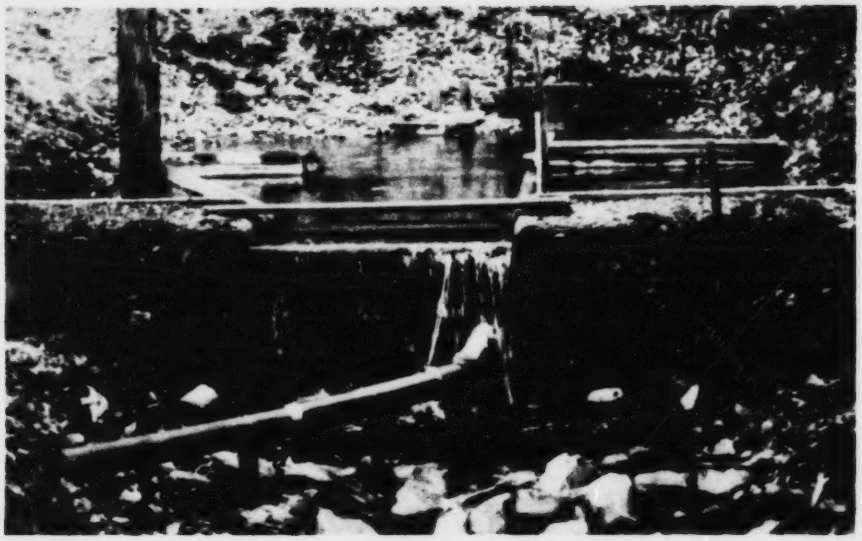
ROCKY MOUNTAIN TROUT FARM

FIGURE 4.1

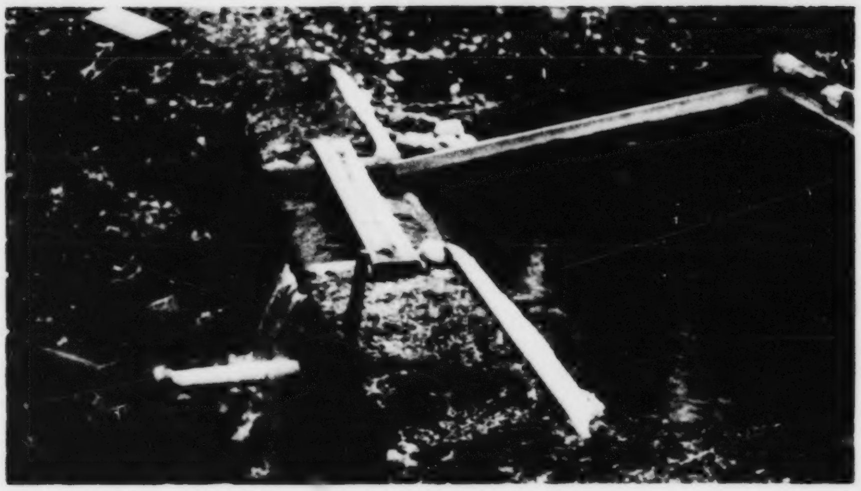

Concrete wall on top of rock to prevent rock going into intake
FLOW
Canyon wall
Canyon wall
Concrete step Sloping
16'
3'
40°-30°
11'
Roof over
Plywood baffle
Plastic milk bottle crate
Metal screen
8"ϕ wire wound woodstave
PLAN
1½" steel supports
Plywood roof
Plywood slide gate
4'
2'6"
Sand
11'
8"ϕ
ELEV.

HOLMDEN CREEK PROJECT-INTAKE

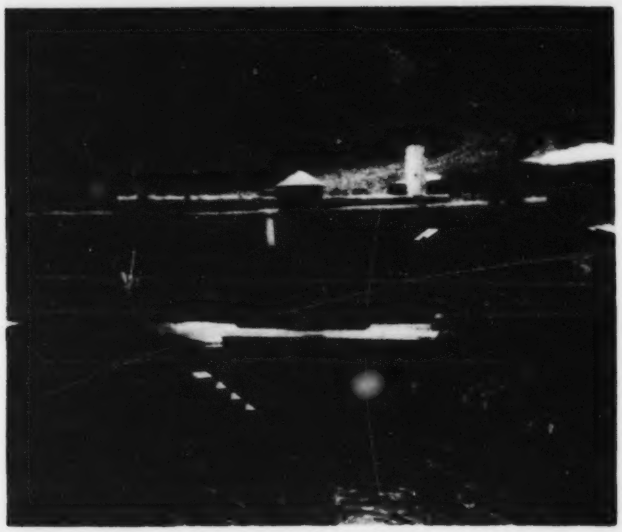
FIGURE 4.2



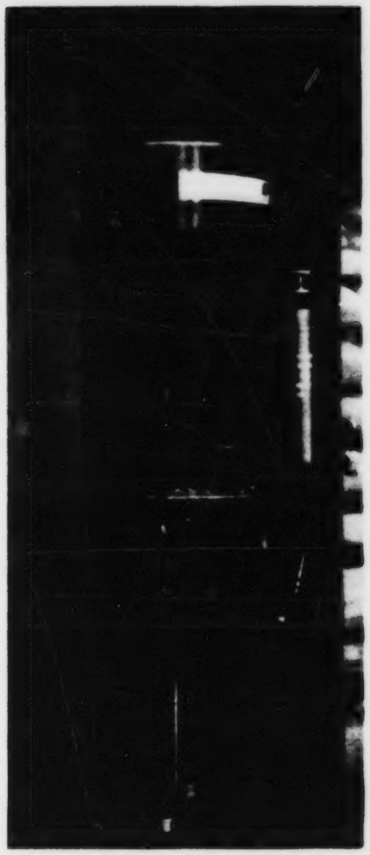
Headpond, Gabion Dam and penstock. Water source is a spring.



Gabion Dam



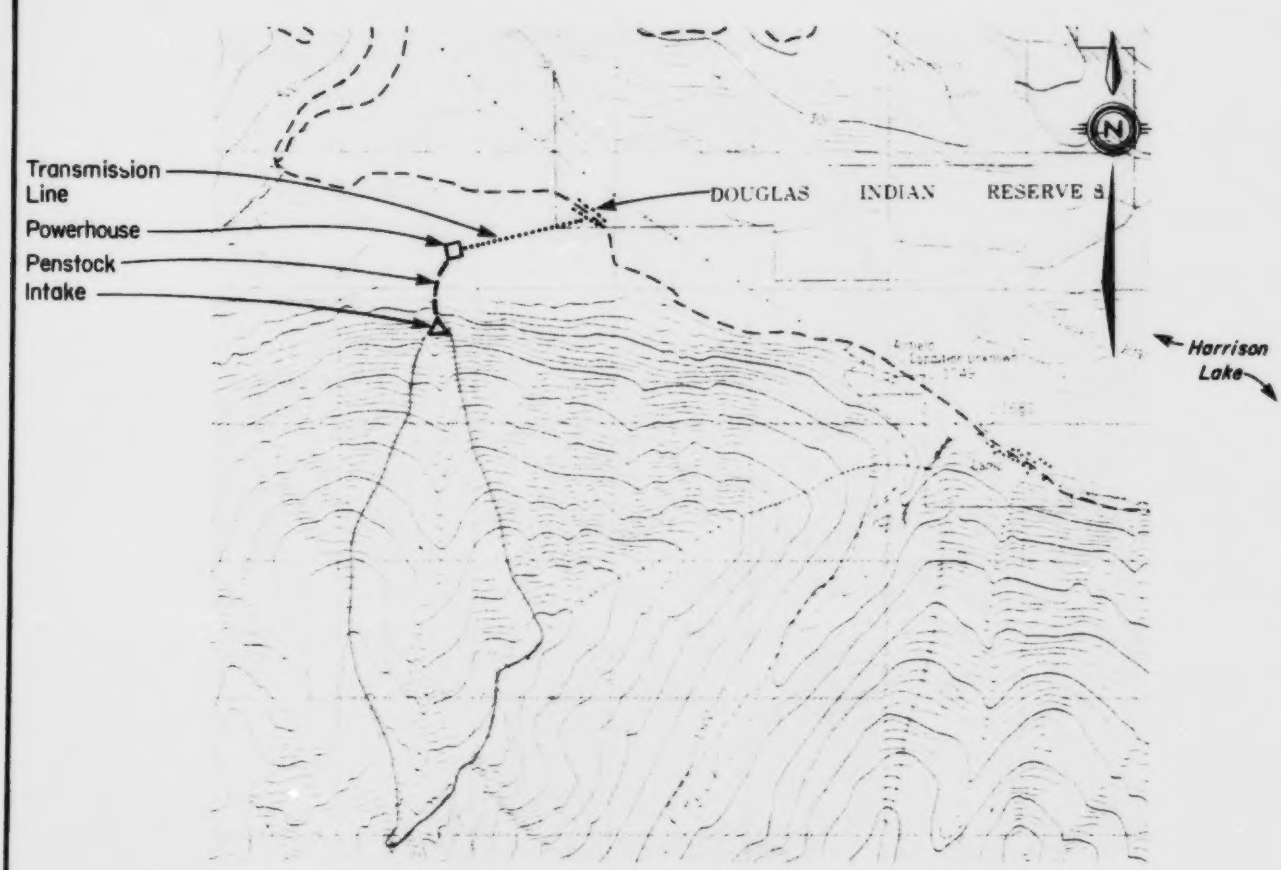
10 kW Hoppes Hydro-electric unit



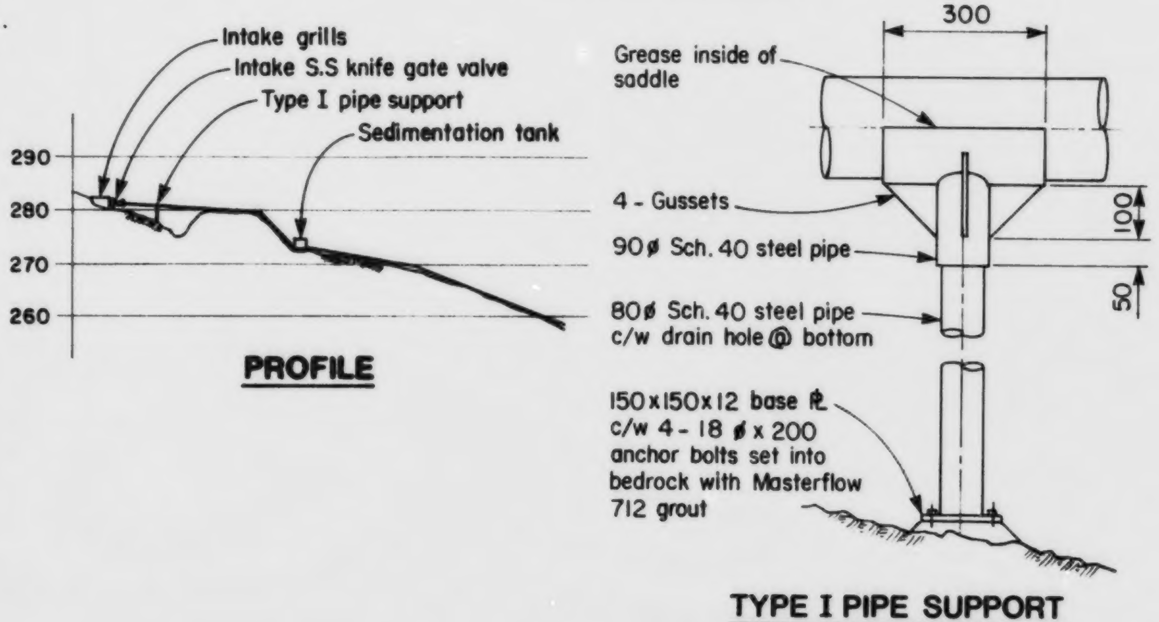
Generator in enclosure

PARMENTER POWER

FIGURE 4.3


Transmission Line
Powerhouse
Penstock
Intake
DOUGLAS INDIAN RESERVE
N
Harrison Lake

PROJECT LAYOUT


Intake grills
Intake S.S knife gate valve
Type I pipe support
Sedimentation tank
290
280
270
260
300
Grease inside of saddle
4 - Gussets
90ø Sch. 40 steel pipe
80ø Sch. 40 steel pipe c/w drain hole @ bottom
100
50
150x150x12 base ℞ c/w 4 - 18 ø x 200 anchor bolts set into bedrock with Masterflow 712 grout

PROFILE

TYPE I PIPE SUPPORT

Source Highland Energy System

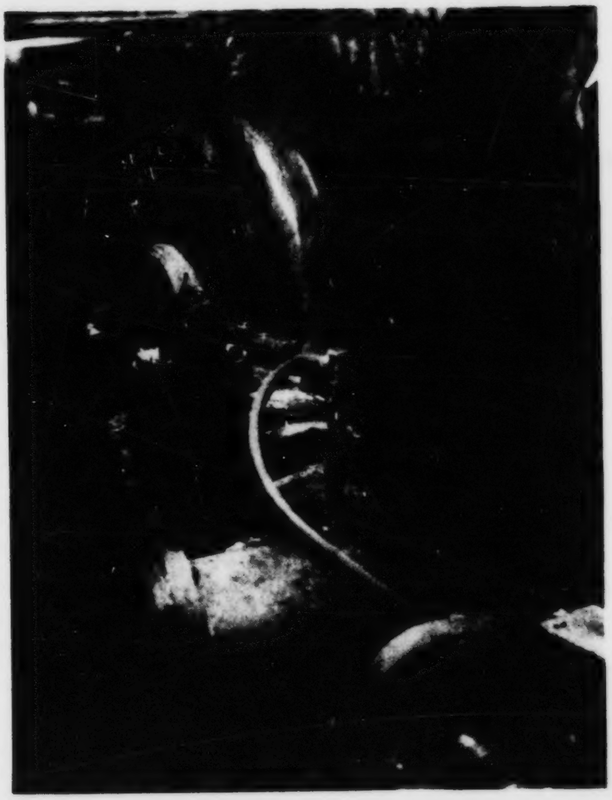
DOUGLAS POWER PROJECT

FIGURE 4.6

5429

Flume to sediment tank

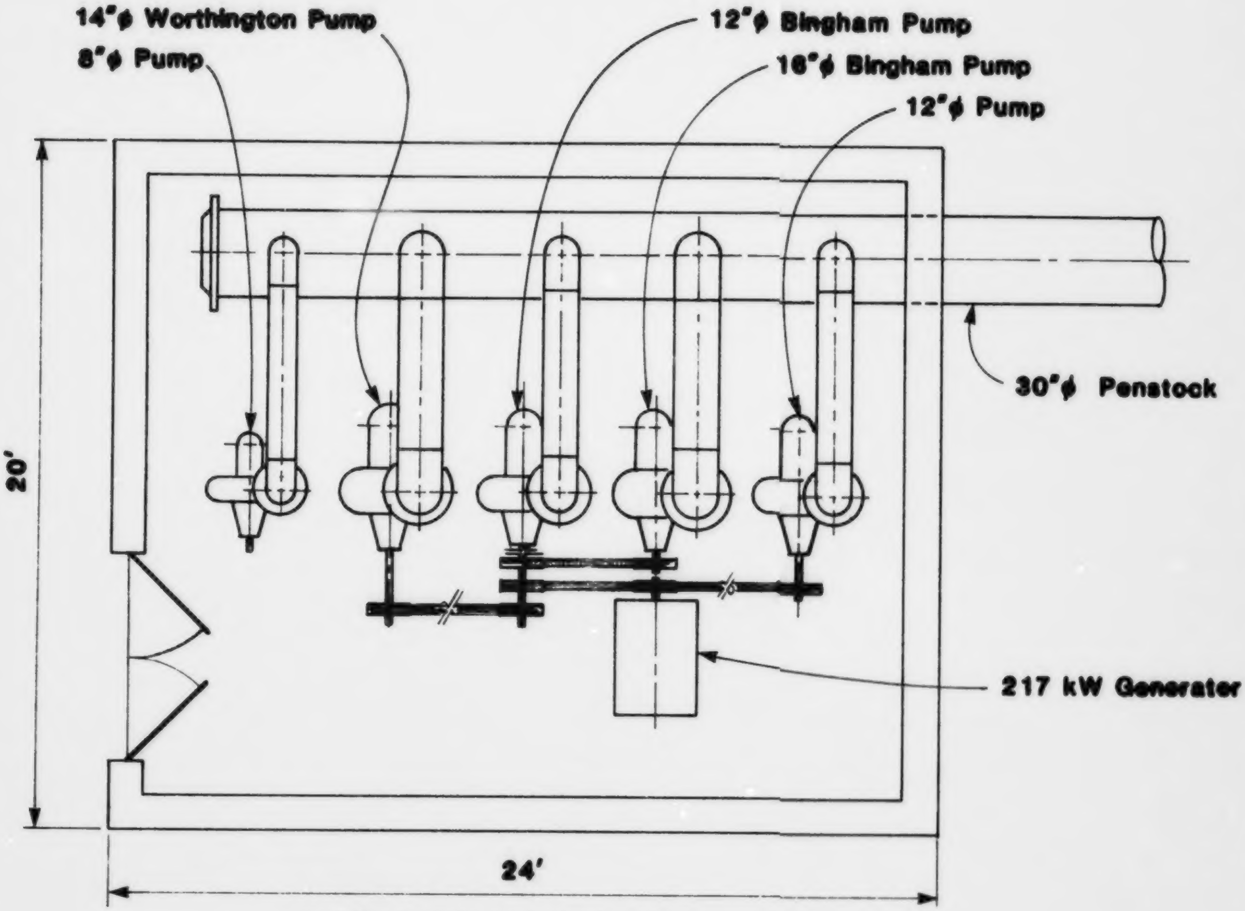
Intake pipe in creek



140 hp Gilkes Turgo turbine

WESTON SHINGLE MILL

FIGURE 4.7

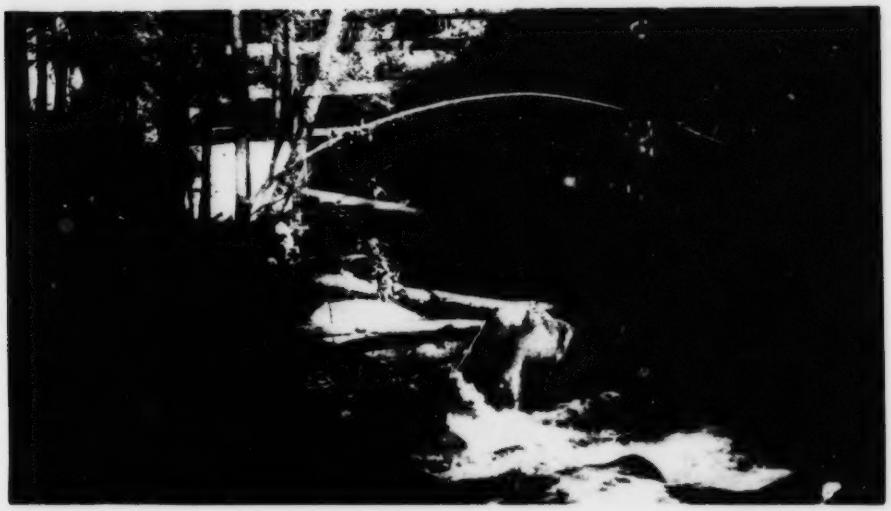

14"ϕ Worthington Pump
8"ϕ Pump
12"ϕ Bingham Pump
16"ϕ Bingham Pump
12"ϕ Pump
30"ϕ Penstock
20'
217 kW Generator
24'

SCHEMATIC LAYOUT OF POWER PLANT
N.T.S.

16" Pump
14" Pump

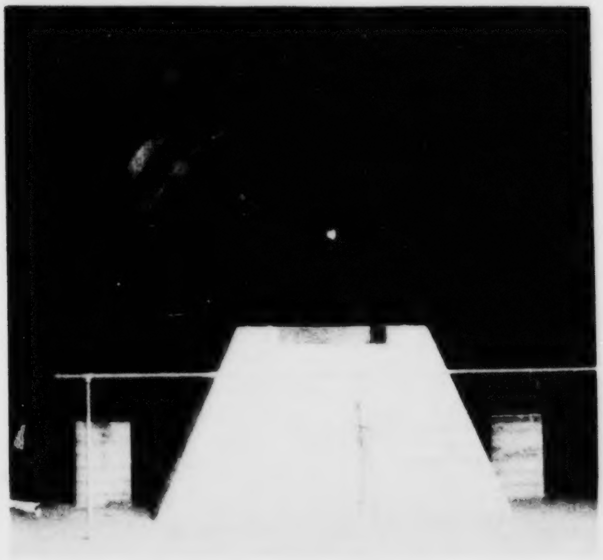
THREE VALLEY GAP POWER PLANT
FIGURE 4.8

Intake dam and headpond: penstock intake on right



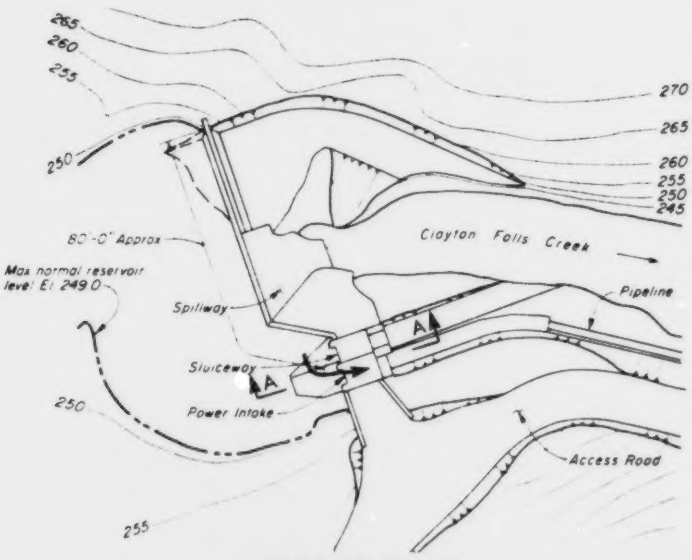
Intake dam: sluiceway on right, penstock far left (white)

Penstock intake on right, irrigation pipe intake on left

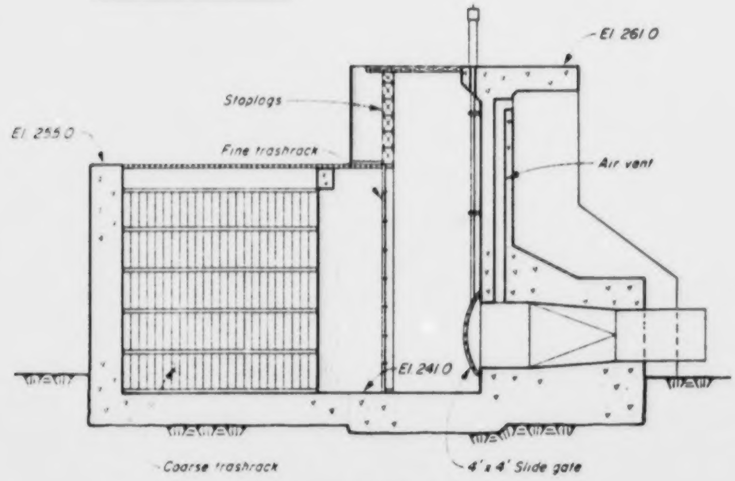


600kW generator

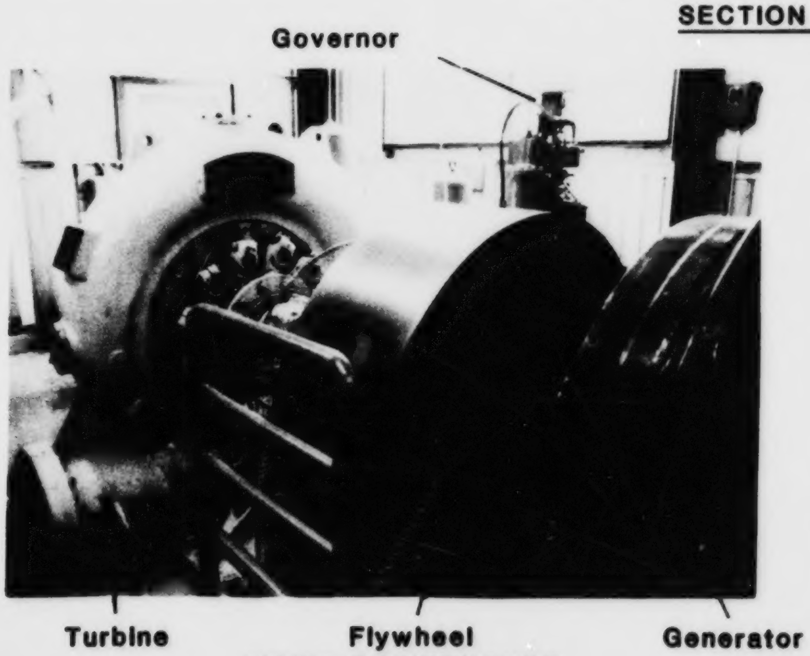
FIGURE 4.9


265
260
255
250
270
265
260
255
250
245
80'-0" Approx
Max normal reservoir level El 249.0
Clayton Falls Creek
Pipeline
Spillway
A
Sluiceway
A
Power Intake
250
255
Access Road

INTAKE PLAN


El 261.0
Stoplogs
El 255.0
Fine trashrack
Air vent
El 241.0
Coarse trashrack
4' x 4' Slide gate

SECTION A-A

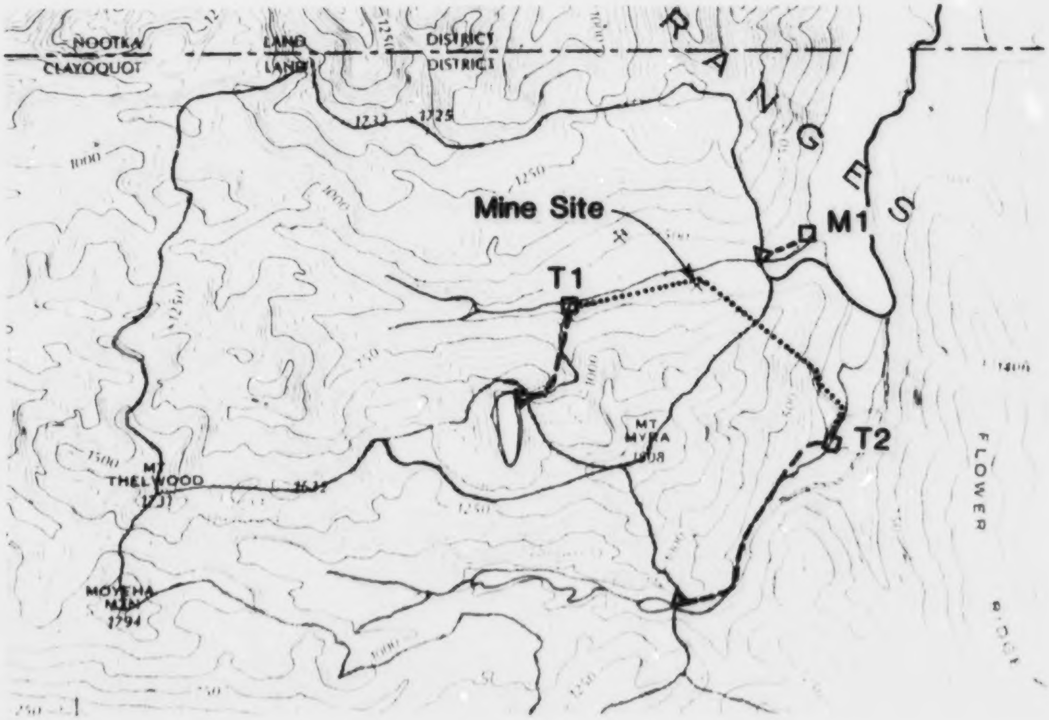

Governor
Turbine
Flywheel
Generator

INSIDE POWERHOUSE

CLAYTON FALLS HYDRO PROJECT

Drawings reproduced from report by B.C. Hydro

FIGURE 4.10


NOOTKA
CLAYOQUOT
LAND
LAND
DISTRICT
DISTRICT
RANGES
1725
1250
1000
Mine Site
M1
T1
T2
MT MYRA 1808
MT THELWOOD 1731
1500
MOYEHA MTN 1794
FLOWER RIDGE
1400

LEGEND

———— Drainage boundary
– – – – – – – Penstock
▷ Intake
□ Powerhouse
………………… Transmission line

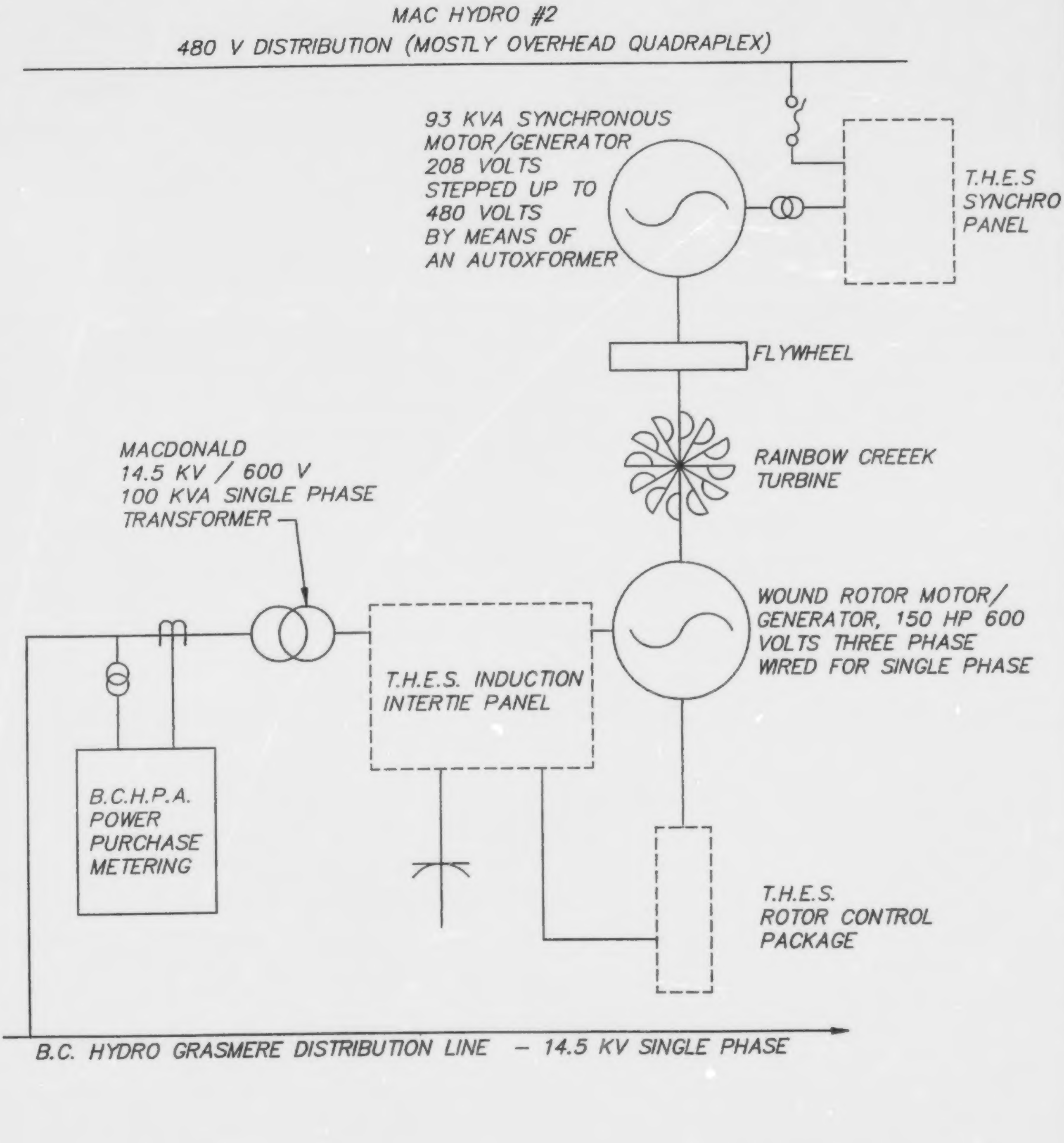
NOTE: Mean Annual Flow assumed as 100 ℓ/s/km^2 ≈ 125"/year

	Tennent(T1)	Thelwood(T2)	Myra(M1)
Drainage Area (km^2)	4	27	69
Available Head (m)	600	450	79
Installed Capacity (kW)	3000	8100	4000
Mean Annual Stream Flow/Design Flow m^3/s	.4/.66	2.7/2.4	6.9/6.9
Mean Annual Energy	47%	64%	60%
(As % of installed capacity, no storage)			
Storage	Yes	Yes	No
Date of Installation	1966	1984	Not built
Penstock L	2800	4400	1000
D	.5/.6	1.2	1.6
Environmental Concerns	No	No	Yes

TENNENT CREEK PROJECT AND
COMPARISON OF DEVELOPMENT ALTERNATIVES

FIGURE 4.11

5429


MAC HYDRO #2
480 V DISTRIBUTION (MOSTLY OVERHEAD QUADRAPLEX)
93 KVA SYNCHRONOUS MOTOR/GENERATOR 208 VOLTS STEPPED UP TO 480 VOLTS BY MEANS OF AN AUTOXFORMER
T.H.E.S SYNCHRO PANEL
FLYWHEEL
RAINBOW CREEEK TURBINE
MACDONALD 14.5 KV / 600 V 100 KVA SINGLE PHASE TRANSFORMER
WOUND ROTOR MOTOR/ GENERATOR, 150 HP 600 VOLTS THREE PHASE WIRED FOR SINGLE PHASE
T.H.E.S. INDUCTION INTERTIE PANEL
B.C.H.P.A. POWER PURCHASE METERING
T.H.E.S. ROTOR CONTROL PACKAGE
B.C. HYDRO GRASMERE DISTRIBUTION LINE – 14.5 KV SINGLE PHASE

SCHEMATIC DIAGRAM FOR THE MACDONALD RANCH GENERATION & DISTRIBUTION SYSTEM, INCLUDING THE 75 KVA LINK TO B.C.H.P.A.

SOURCE: THOMSON & HOWE

FIGURE 4.12

5. HISTORICALLY SIGNIFICANT PROJECTS

The historical projects described in this section include 20 projects built between 1895 and 1933. Within these projects power is still being generated at 4 sites, and substantial remains are still visible at 6 other sites. The project highlights are summarized in the contents list below and further information is found in the database and in Section 2.4.

Ref. No.	Name	Owner	Source	Capacity	Date
C1	BARRIERE POWER PLANT	CITY OF KAMLOOPS	BARRIERE R	1350	1915
C2	BRITANNIA	COPPER BEACH ESTATES	BRITANNIA CR	5350	1905
C3	FALLS CR/ANYOX	GRANBY CONS MINING/SMELTG	FALLS CR	4940	1910
C4	GOLDSTREAM	B C ELECTRIC RAILWAY CO	GOLDSTREAM R	2200	1895
C5	ILLECILLEWAET	CITY OF REVELSTOKE	ILLECILLEWAET R	900	1898
C6	JORDAN R	B C ELECTRIC RAILWAY CO	JORDAN R	3280	1912
C7	PUNTLEDGE R	B C HYDRO	PUNTLEDGE R	7000	1913
C8	OCEAN FALLS	PACIFIC MILLS	LINK R	10200	1917
C9	HEDLEY CR & SIMILKAMEEN R	HEDLEY GOLD MINING CO	HEDLEY CR & SIMILKAMEEN R	1320	1915
C10	WOODWORTH	B C HYDRO	WOODWORTH L	900	1914
C11	GOAT R	WEST KOOTENAY POWER	GOAT R	1185	1933
C12	SWANSON BAY	WHALEN PULP & PAPER	YULE L	320	1915
C13	KUSKANAX CR	NAKUSP ELECTRIC LIGHT &	KUSKANAX CR	250	1920
C14	MILLSTREAM	NANAIMO ELECTRIC LIGHT	MILLSTREAM R	350	1918
C15	GRANITE FALLS	HUB CONTRACTING	GRANITE FALLS CR	40	1919
C16	COUGAR LAKE	SURF INLET POWER CO	COUGAR L	750	1916
C17	JUNIPER CR	MONTANA CONTINENTAL DEV	JUNIPER CR	150	1914
C18	GLACIER	C P HOTELS	ILLECILLEWAET R	50	1913
C19	FORTUNES CR	CITY OF ARMSTRONG	FORTUNES CR	100	1909
C20	CASCADE & FLETCHER CR	BRIT. SILBAK PREMIER MINE	CASCADE & FLETCHER CR	850	1923

5.1 BARRIERE RIVER DEVELOPMENT - CITY OF KAMLOOPS

The Barriere River development, about 40 miles north of Kamloops, was built in 1915 to provide power for the City of Kamloops. Details of the development are given in the Project Summary. Features of this development that are of interest to present day small hydro are the wooden-crib dam (see Figure 5.1) and the 3.4 mile long wooden flume. A wooden-crib dam, filled with rock, with a planked spillway, is a structure that can be easily made from materials at the site. The long flume is a reminder that water can often be carried a long way economically, to produce the head needed for the turbine.

Winter flows in the Barriere River were often not sufficient to produce the power required by the City of Kamloops; and ice often interfered with the continuous operation of the plant. A steam powerplant, with an output greater than the hydro-electric plant, was needed to supply reliable power.

Power was also supplied within 50 miles of the city to mines, lumber mills and to pumping plants for the irrigation of fruit and farm lands. The last power report(6) was in 1951, and the peak power output during the period 1920 to 1951 was 1900 kW. The present status of the hydro development is not known.

The project was abandoned in 1951: the flumes and pipe were dismantled, the turbine and generator and other powerplant equipment were removed, the powerhouse was demolished, North Barriere Lake dam was also demolished, and on East Barriere Lake dam the headgate was removed (Reference 9).

PROJECT SUMMARY
BARRIERE RIVER DEVELOPMENT - 1350 kW

Location:	Near Barriere, 40 miles north of Kamloops. Plant is on the Barriere River 5 miles above its confluence with the Thompson River.
Dates:	Constructed in 1914; last power report(6) 1951.

Present Status: Only East Barriere Lake Dam remains.

Dams: Diversion Dam (built 1914): 8 miles downstream of East Barriere Lake; wooden-crib with planked spillway; length 295ft, height 15ft, spillway length 100ft, freeboard 6ft; two 12 x 12ft control gates; Fish ladder and log-chute.
East Barriere Lake Dam (built 1924-26): no details available.
North Barriere Lake Dam (built in 1932): no details available.

Flume, Forebay Penstock: Wooden flume 8 x 3.5ft, 18,000 ft long; wood-stave pipe 2500 ft long; forebay with sluices and spillway; two 48 inch diameter wood-stave penstocks 500 ft long, buried, with concrete anchors.

Head: 190 ft gross head.

Turbines: Two 1,110 hp, 720 rpm, horizontal shaft, Francis turbines, bronze runners, manufactured by Platt Iron Works.

Governors: One direct-connected oil-pressure type. One Lombard type.

Generators: One 750 kW, one 600 kW, both 3-phase, 60-cycle alternators generating at 2,300 volts, manufactured by Canadian Westinghouse Co.

Transmission: 45 miles, at 44,000 volts, to Kamloops. Cedar poles, reinforced steel-stranded aluminum conductors.

Backup Power: 1200 kW steam plant at Kamloops.

Costs: Hydro plant construction $140 per h.p; charges for power for irrigation pumping in 1917, $1.00 per acre per month.

5.2 BRITANNIA POWER DEVELOPMENT - BRITANNIA BEACH

The Britannia development is a good example of an extensive staged development built to harness the maximum power from a relatively small basin -the drainage area of Britannia Creek is about 8.5 square miles. Details of the development are shown under Project Summary: there were ten dams, thirteen pipelines and five locations at which hydro-power was produced. Although the total power output of the two major powerhouses was 600 kW and 4750 kW, most of the units were less than 300 kW each.

The initial development, built in about 1905, comprised the two powerhouses; dams on Britannia Creek at El. 2922 and at El. 1950 (this dam is listed by the Water Management Branch as Tunnel Dam, built in 1916, with crest elevation 1988) and dams on Marmot and Jane Creeks; pipelines Nos. 3, 4, 5, 9, and 12; the Beach compressor house and the old mill. Utopia Lake dam and Mineral Creek dam were built some time before 1915. Park Lane dam, pipeline No 2 and Furry Creek diversion, were completed before 1915 and several additions to the generating plant were made before 1919. Thereafter, changes were made to some of the pipelines and the generating plant.

Tunnel powerhouse (see Figure 5.2) was shut down in 1974; some of the machinery was sold, but most was left in place and has since been almost totally vandalized. At present (March 1986) the following structures and machinery remain:

- Utopia, Park Lane and diversion dam at El. 1950.
- One pipeline from the diversion dam to the Beach powerhouse.
- Beach powerhouse with two 2500 kVA generators which are operative but inactive; several smaller generating units and compressors which are inoperative.

Power for part of the community is fed from a BC Hydro transmission line into the Beach powerhouse where it is stepped down to 6900 volts for local distribution. Because of this high voltage, visitors are not allowed into the powerhouse unless accompanied by a representative of the owners, Copper Beach Estates Limited.

PROJECT SUMMARY
BRITANNIA POWER DEVELOPMENT - TWO POWER PLANTS 4750 + 600 kW

Source of Data:	Most of the data in this table is taken from Reference 2, except where other references are shown with superscripts.
Location:	Britannia, 8 miles south of Squamish. Two power plants: Beach Powerhouse (at El. 165 feet) and Tunnel Powerhouse (at El. 2084 feet).
Dates:	Initial development about 1905. Pipelines, dams and generating units added up to about 1919.
Present Status:	Beach Powerhouse and machinery are in good condition but not operating.

Dams:

1. **Utopia Lake Storage Dam:** reinforced-concrete, multiple-buttress, 50ft high, 225 ft long; plus wing dam 18ft high, 340 ft long; spillway crest El. 4130 ft.
2. **Park Lane Dam:** reinforced-concrete, 40 ft high, 485 ft long at El. 3547 ft.
3. **Intake dam on Britannia Creek:** El 2922 ft.
4. **Diversion dam on Marmot Creek:** El. 2922 ft.
5. **Diversion dam on Jane Creek:** El. 2970 ft.
6. **Diversion dam on Britannia Creek:** 30 ft high, 210 ft long, El. 1950 ft.
7. **Storage dam on Britannia Creek:** reinforced-concrete, 50 ft high, 205 ft long, El. 750 ft (approx.).

Dams: (Cont'd)

8. **Intake dam on Britannia Creek:** 30ft (approx) high, El. 745 ft.

9. **Intake dam on Mineral Creek:** El. 790 ft (approx).

10. **Diversion dam on Furry Creek:** 56ft high, 145 ft long, El. 900 ft (approx).

Tunnels and Pipelines:

1. **Tunnel out of Mountain Lake:** 90 ft below lake level; control gates at downstream tunnel portal.

2. **Pipeline #2, from Park Lane Dam to Tunnel Powerhouse:** 3225 ft of woodstave pipe, 24, 22 and 20 inch diameter; 7900 ft of steel pipe, 20, 18 and 16 inch diameter; maximum gross head 1464 ft.

3. **Pipeline #3, from intake dam (El. 2922) to Tunnel Powerhouse:** 3600 ft of woodstave pipe, 18 inch diameter; 4500 ft of steel pipe, 15 inch diameter; maximum gross head 838 feet.

4. **Pipeline #4, from Marmot Creek diversion dam (El. 2922) to Pipeline #3:** 1200 ft of woodstave pipe, 14 and 12 inch diameter.

5. **Pipeline #5, from Jane Creek diversion dam (El. 2970) to Tunnel Powerhouse:** 1100 ft of woodstave pipe, 12 inch diameter; 1140 ft of lap welded steel pipe, 12 and 10 inch diameter.

6. **Pipeline #6, from tailrace of Tunnel Powerhouse to Pipeline #7** 1500ft of 24 inch diameter woodstave pipe.

Tunnels and Pipelines: (Cont'd)

7. **Pipeline #7, from diversion dam on Britannia Creek (El. 1950 ft) to Beach Powerhouse:** 7700 ft of woodstave pipe, 36, 30 and 28 inch diameter; 3710 ft of steel pipe, 28 and 26 inch diameter; two parallel steel pipes each 3200 ft, 20 and 18 inch diameters; maximum gross head 1780 ft.

8. **Pipeline #8, from the upper end of Pipeline #7 to Beach Powerhouse:** 8605 ft consisting of 24 and 18 inch diameter woodstave pipe, and 15, 12 and 10 inch diameter steel pipe.

9. **Pipeline #9, from lower part of Pipeline #8 to Beach Compressor House:** 6 inch diameter steel.

10. **Pipeline #10, from intake dam on Mineral Creek to Beach Powerhouse:** 2340 ft woodstave pipe, from 24 to 10 inch diameter; 970 ft of 10 inch diameter steel pipe; maximum gross head 625 ft.

11. **Flumes, tunnels and pipeline #11, from diversion dam on Furry Creek to Beach Powerhouse:**

12. **Pipeline #12, from intake dam on Britannia Creek (El. 745) to Beach Powerhouse:** 2670 ft woodstave pipe, 24, 18 and 16 inch diameter; 1900 ft 13 inch diameter steel pipe(1).

13. **Pipeline #13, from lower part of pipeline #12 to the old mill:** 400 ft of 10 inch diameter steel; pipe continued to new mill.

Powerplants:

1. **Tunnel Powerhouse,** wood frame building 40 ft wide 83ft long, El. 2084 ft; total plant capacity 600 kW.

	Head	Turbine	Speed	Generator/Compressor
1915	838 ft	330 hp Pelton-Doble	900 rpm	200 kW a.c. generator Allis-Chalmers
1915	838 ft	130 hp Pelton-Doble	900 rpm	100 kW a.c. generator Allis-Chalmers
1915	838 ft	125 hp Pelton-Doble	330 rpm	Rand compressor
1915	838 ft	200 hp Henry wheel	480 rpm	Rand compressor
	1464 ft	1400 hp Pelton	900 rpm	300 kW d.c. motor-generator
	1464 ft	550 hp Pelton	160 rpm	Rand Rogler compressor

2. **Beach Powerhouse,** El. 165 ft, total plant capacity 4750 kW.

	Head	Turbine	Speed	Generator/Compressor
1915	1780 ft	2 x 330 hp Pelton	600 rpm	2 x 200 kW a.c. Westinghouse
1915	1780 ft	330 hp Pelton	900 rpm	200 kW a.c. Allis-Chalmers
1915	625 ft	220 Pelton-Doble	-	150 kW d.c. Crocker-Wheeler
	1780 ft	2 x 1875 hp(4) Pelton	720 rpm	2000 kW a.c. Westinghouse
	1780 ft	3750 hp Pelton		2000 kW a.c. Westinghouse

Powerplants: (Cont'd)

3. **Beach Compressor House,** El. 5ft.

	Head	Turbine	Speed	Machinery
1915	1945 ft	400 hp Pelton	150 rpm	Rand compressor

4. **Old Concentrating Mill,** El. 80 ft.

	Head	Turbine	Speed	Machinery
1915	695 ft	3 x 100 Pelton	-	Concentrators

5. **New Concentrating Mill,** El. 50 ft.

	Head	Turbine	Speed	Machinery
	665 ft	2 x 250	360 rpm	Oil flotation machines.

Back-up Power: Steam auxiliary, 2500 kW. Later, connection to B.C. Electric Co. 34 kV transmission line.

5.3 FALLS CREEK DEVELOPMENT - ANYOX

The Project Summary below gives details of the development of the original hydro plant which was built in about 1910 by The Granby Consolidated Mining, Smelting and Power Co; it comprised the rock-filled timber crib dam, the pipeline and all units in the powerhouse except the 4300 kVA unit. In about 1924 the multiple-arch dam was built and the powerhouse was extended to house the 4300 kVA generating unit (see Figure 5.3). The town of Anyox was abandoned in 1935, and most of the machinery from the powerhouse was removed. In 1943 a forest fire destroyed almost everything that was left of the town and mill.

The development illustrates the use of local materials - rock and timber - to build a high dam (115 ft maximum height). It also shows that the power output of the development could be doubled (from 5925 hp to 10925 hp) by building the second reinforced-concrete multiple-arch storage dam. This type of dam would have required considerably less concrete than a gravity dam, although it would require a large area of formwork. The concrete would have been relatively expensive compared to the formwork made from local lumber by relatively inexpensive labour. Falls Creek was glacier fed, and during three winter months of extreme cold flows were insufficient to provide the power needed for the smelter, mines and town. An auxiliary steam plant, with a capacity equal to the original hydro installation, was built to assure continuous power for operating the mines and smelter to capacity.

PROJECT SUMMARY
FALLS CREEK DEVELOPMENT, ANYOX - 4940 kW

Location:	Observatory Inlet, about 90 miles north of Prince Rupert.
Dates:	Plant built in about 1910. Town vacated in 1935; most of powerplant machinery removed.
Present Status:	Powerhouse superstructure remains, parts of remaining machinery badly vandalized (1970 photo) dam still exists.

5.3 PROJECT SUMMARY (..Cont'd)

FALLS CREEK DEVELOPMENT, ANYOX - 4940 kW

Dams:

1. **Dam #1 - original storage and diversion dam:** rock-filled timber-crib dam, 115 ft high, 170 ft long, crest width 20 ft, base width 208 ft; adjacent spillway excavated from solid rock, 120 ft long, with crest 9 ft below crest of dam; storage 500 acre-feet; 72 inch diameter penstock in dam controlled by 72 inch diameter sluice gate.

2. **Dam #2 - storage dam, completed 1924:** (see Figure 5.3); reinforced concrete multiple-arch 137 ft high, 684 ft long; siphon spillway plus gated overflow section, total capacity 15,000 cfs,; water released down creek through three 30 inch pipes with 30 inch gate valves and 37 inch butterfly valves.

Pipeline: Wood-stave pipe, 5,800 ft long, 72 inches diameter, the first 150 ft in tunnel, maximum head on pipe at downstream end about 300 ft; steel pipe, 70 ft long, 72 inches diameter, branching into three 36 inch steel pipes, 50 ft long.

Head: 375 ft gross head.

Powerhouse: Steel frame, brick curtain walls, 50ft by 180ft, on a concrete foundation.

Turbines and Generators:

Turbine	Speed	Generator/Compressor
800 hp, 16 ft dia. Pelton-Doble impulse	84 rpm	Norberg compressor, for mine
1400 hp, 23 ft dia. Pelton-Doble	75 rpm	Norberg compressor for Bessemer converters

5.3 PROJECT SUMMARY (..Cont'd)

FALLS CREEK DEVELOPMENT, ANYOX - 4940 kW

Turbines and Generators: ...(Cont'd)

Turbine	Speed	Generator/Compressor
3 x 775 hp, 14 ft dia. Pelton-Doble	125 rpm	Connersville blowers
2 x 700 hp each with double runner	400 rpm	2 x 938 kVa Westinghouse generators

All the above turbines have oil-pressure governors actuating auxiliary relief nozzles to provide proper speed regulation and reduce pressure rise.

		2 x 440 hp motors connected to 2 x 300 kW dc generators
5000 hp Pelton vertical reaction turbine, added about 1924	720 rpm	4300 kVA Westinghouse generator

Auxiliary Power:

Steam Plant:

7 x 550 hp and 2 x 150 hp Babcox & Wilcox boilers; 3750 kVA and 2500 kVA Westinghouse turbo-generators.

5.4 GOLDSTREAM DEVELOPMENT - NEAR VICTORIA

The Goldstream development was completed in 1898 by the BC Electric Railway Company. It was the first major hydro-electric plant on the BC coast. The development made use of five storage reservoirs owned by the Esquimalt Waterworks Co (the first built in 1893), and the water from the powerplant was returned to the Waterworks Co's reservoir below the powerhouse for the city's water supply.

Details of the development are shown in the Project Summary.

The powerplant ceased operation some time after 1954, and all the machinery was taken out.

PROJECT SUMMARY
GOLDSTREAM HYDRO ELECTRIC PLANT - 2200 kW

Location:	At Goldstream, about 15 miles west of Victoria.
Date:	Completed 1898
Present Status:	Powerhouse building (see Figure 5.4), pipelines and dams remain. Powerplant machinery removed. The reservoirs are now used for water supply and the original powerhouse building is used for waterworks equipment storage.
Dams:	Dams on 5 storage reservoirs between El. 1200 and El. 1500 feet; one dam on storage reservoir at El. 1100 feet. These dams are described in detail in Reference 17.
Pipeline:	Steel pipe, 4000 ft of 33 inch diameter, 4000 ft of 30 inch diameter (shown as 2604 ft of 30 inch diameter in Reference 17).
Head:	650 feet gross head.
Powerhouse:	Brick on concrete foundations.

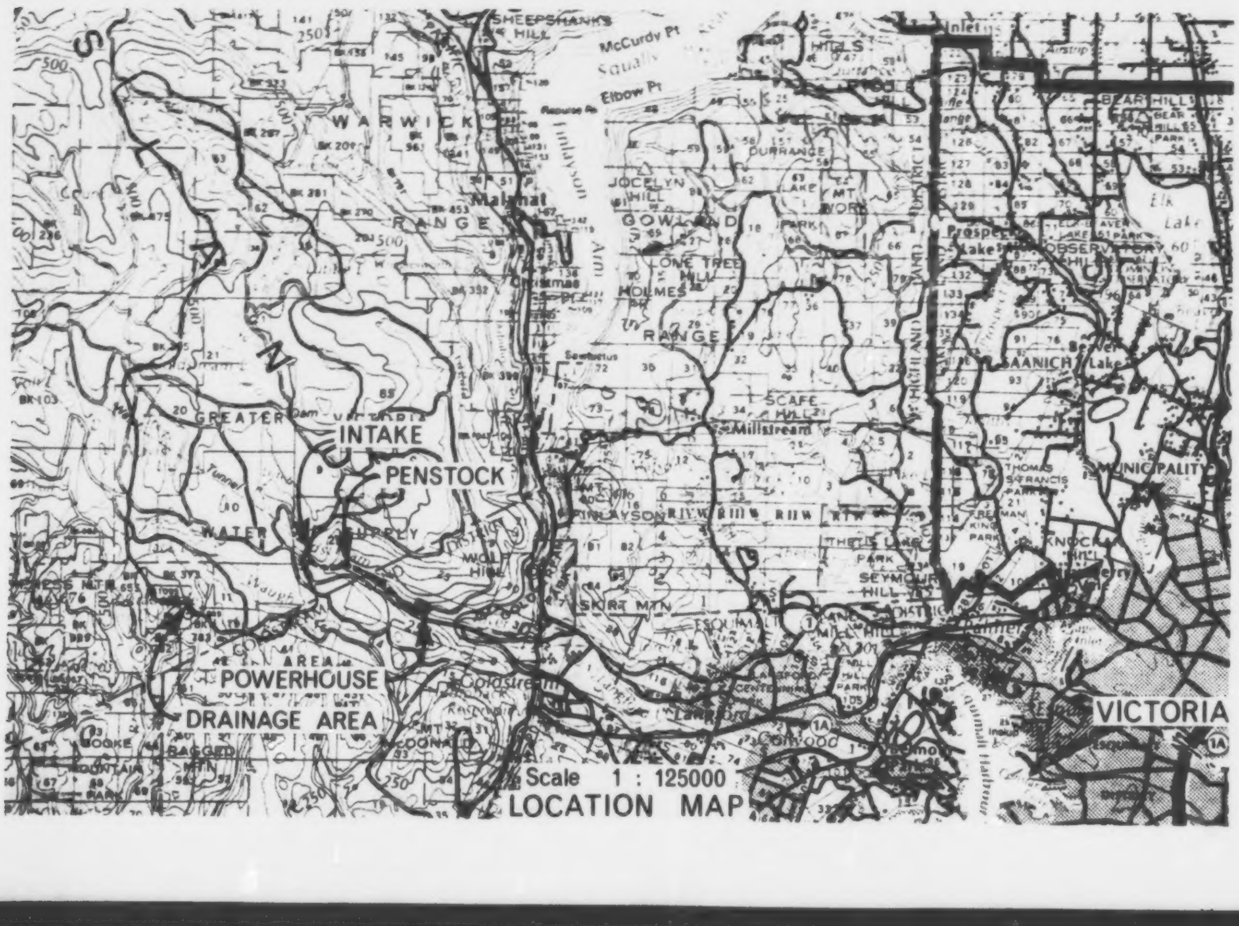
5.4 PROJECT SUMMARY (..Cont'd)

GOLDSTREAM HYDRO ELECTRIC PLANT - 2200 kW

Turbines and Generators:

Turbine	Governor	Generator	Dates
2/600 hp Pelton	Replagle	2/350 kW General Electric	Installed 1898 Retired before 1954
900 hp	Type F Lombard water operated	500 kW Canadian General Electric	Installed 1903
2/1000 hp impulse turbines both direct connected to generator	Type F Lombard water operated	1000 kW Westinghouse	Installed 1905

Transmission: Two 12 kV lines, 12 miles long, to Victoria.


INTAKE
PENSTOCK
POWERHOUSE
DRAINAGE AREA
VICTORIA
Scale 1 : 125000

LOCATION MAP

5.5 ILLECILLEWAET DEVELOPMENT - REVELSTOKE

The initial development on the Illecillewaet river, built in 1898, was one of the first hydro developments in British Columbia. The development went through many changes until 1977 when the dam was demolished intentionally for safety: the powerplant had been removed some time between 1966 and 1977 after connection to the BC Hydro system occurred and power supply became more economical from the grid. The Project Summary shows details of the development.

The Illecillewaet development is an example of a relatively low head plant (73 ft) requiring large diameter (72 inch) pipelines. The river flows were probably high enough for the full output of the powerplant for most of the year. However, during prolonged sub-zero temperatures, serious ice problems have been reported: probably as a result of very low stream flows, frazil ice in the turbulent stream and anchor ice forming at the intake and in the pipelines.

Since the dam has been demolished, there is nothing that would benefit redevelopment at this site.

PROJECT SUMMARY
ILLECILLEWAET DEVELOPMENT - 900 kW

Location:	1½ miles east of Revelstoke.
Dates:	First dam and powerhouse built in 1898(4). Last year of operation 1966. Dam demolished in 1977.
Initial Development:	Built 1898. Log-crib dam; 8-foot square wooden flume 1600 feet long; wood-frame powerhouse equipped with early-type Sampson turbine, belt connected to two 120 kW, single phase, 25 cycle, 200 V generators.

Later Developments:

1909-1911

Dam:	Concrete gravity dam, 66 feet high, 124 feet long including 52ft long free crest spillway.
Pipelines:	Two 72 inch diameter wood-stave pipes 1400 feet long. (One pipe replaced the earlier flume).
Head:	73 feet gross head.
Powerplant Added:	New brick powerhouse; 900 hp horizontal Francis-type Jenks turbine; 450 kW generator (direct connected to turbine). Old 120 kW single phase 25 cycle generators replaced by 120 kW 3-phase, 60 cycle generators.
1915 Added:	1200 hp double-runner Francis type Escher-Wyss turbine; 750 kVA Westinghouse generator (direct-connected).
Powerplant Withdrawn:	Two 120 kW turbine-generator units; Old powerhouse removed.
1935	Pipeline to the Escher-Wyss unit replaced and concrete surge tank built into new pipeline 270 feet from powerhouse.
1942	Jenks unit and pipeline leading to it were removed.
1950	The 750 kVA generator was replaced by a 1125 kVA generator.
Standy Power:	
1925:	512 kVA diesel powered Canadian General Electric generator in new powerhouse in city of Revelstoke.
After 1945:	Two 375 kVA diesel powered generators added.

5.6 JORDAN RIVER DEVELOPMENT - NEAR VICTORIA

The Jordan River development was built between 1909 and 1912 by the BC Electric Railway Company to supply power to Victoria and surrounding area. It is the only major hydro development on the west coast of Vancouver Island. Although the precipitation along the west coast is high - 138 inches per year at Bear Creek dam - streamflows vary considerably throughout the year and, in general, there is not sufficient natural storage to provide power economically. At Jordan River, two storage dams were built to raise the level of two natural lakes, and 1145 feet of head was developed.

Bear Creek storage dam is a hydraulic fill dam (fill piped to damsite as a slurry) with a sheet steel-pile curtain-wall. The diversion dam is a reinforced-concrete flat-slab and buttress dam (Ambursen) (see Figure 5.6), and when it was built in 1912 it was believed to be the highest dam in Canada.

The concept of one or more storage dams on natural lakes, a long flume with very little slope, a forebay, and pipelines to develop the head, can be applied to the design of a small hydro project of any size.

The Jordan River development is now owned by BC Hydro. In 1970 a concrete gravity dam 124ft high, 452ft long was built about one mile downstream of Diversion dam, and a tunnel and penstock were built to feed a new 150 MW powerplant. The old powerplant, penstocks and flume were removed at about the same time.

PROJECT SUMMARY
JORDAN RIVER DEVELOPMENT - 3280 kW

Location: Near Jordan River on south west coast of Vancouver Island, about 37 miles west of Victoria.

Dates: Initial installation built 1909-12; major reconstruction including new dam, tunnel and powerhouse built in 1970 is not described here.

5.6 PROJECT SUMMARY (..Cont'd)

JORDAN RIVER DEVELOPMENT - 3280 kW

Present Status: Bear Creek and Jordan River Diversion dams exist; flume, pipelines and old powerplant removed in about 1970.

Dams:

1. **Bear Creek Dam - completed in 1912:** 57 feet high hydraulic-fill with sheet steel piling curtain wall driven to bedrock; crest length 1020 feet; spillway excavated into rock, 47 feet long.

2. **Temporary Jordan River Diversion Dam - completed in 1912:** rock-filled timber crib dam, 18 feet high, 128 feet long, 8 feet wide at the crest, side slopes 1 to 1; upstream face 2 layers of 2 inch thick planks, toe set in concrete sill; dam submerged by construction of permanent dam in 1914.

3. **Jordan River Diversion Dam - completed in 1914:** reinforced concrete flat-slab and buttress (Ambursen), 126 feet high, 891 feet crest length; upstream face 1 to 1 slope; free-crest spillway 305 feet long, crest 8 feet below crest of dam.

Flume: Wooden flume, 6 feet square, 5.3 miles long, grade 1 in 1000, capacity 175 cfs; five sandboxes built along length of flume, with gates to flush sand and silt, or to empty flume in emergency; flume discharges into forebay.

Forebay: Formed by two earthfill dams, 560 feet and 700 feet long, maximum height of both 35 feet; spillway built into one dam.

Intake: Two riveted steelpipes, 54 inches diameter, with roller-bearing sluice gates at upstream end protected with trashracks.

5.6 PROJECT SUMMARY (..Cont'd)

JORDAN RIVER DEVELOPMENT - 3280 kW

Pipelines:

1. Riveted steel, 44 inches diameter, 3010 feet long terminating in Y; two steel pipes varying in diameter from 36 to 30 inches, each 6280 feet long; short taper pieces from 30 to 24 inches diameter connect these two pipes to units #1 and #2 in the powerhouse.

2. Riveted steel, 9290 feet long varying in diameter from 54 to 44 inches, terminating in Y; branches are 34 inch diameter tapering to 24 inches.

All pipes rest on rock, hardpan or gravel in trenches; numerous concrete deflecting walls across pipe trenches deflect seepage water out of trench.

Valves: **On pipeline #1:** Gate valves at downstream end of Y; single disc hand operated gate valves at downstream end of 24 inch taper.

On pipeline #2: Single disc gate valves at downstream end of 24 inch taper; valves operated by small reversible water wheels operating on bronze nuts on the rising stems.

Head: 1145 feet gross head.

5.6 PROJECT SUMMARY (..Cont'd)

JORDAN RIVER DEVELOPMENT - 3280 kW

Powerplant:

Unit	Date Installed	Turbine	Speed	Governor	Generator
1	1912 (removed 1934)	5700 hp Doble water wheel with needle regulating and relief valves.	400 rpm	Lombard Type Q	4000 kVA Allis-Chalmers
2.	1912	Similar to Unit #1			
3.	1914	two 6500 hp double-overhung Pelton-Doble water wheels, regulating and relief valves. (see Figure 5.6)	-	Pelton-Doble	8000 kVA Canadian General Electric
4.	1931	18,000 hp	300 rpm	-	15,000 kVA
5. at Diversion Dam		2250 hp reaction-type	400 rpm	-	1875 kVA

Transmission:	37 miles, wood poles with steel cross-arms, 60 kV, to Victoria.
Auxiliary Steam Plant:	at Brentwood, 13 miles from Victoria; contains two 2,000 kVA units.

5.7 PUNTLEDGE RIVER DEVELOPMENT - COURTENAY

The Puntledge River development was built to replace numerous coalfired steam generating plants at several coal mines in the area operated by Canadian Collieries. Considerable economies in operation were reported to have resulted from this change. This shows that a hydro-electric development, with two dams, 3-1/4 miles of fairly large conduits and a moderate head of 350 feet, could compete economically with steam plants using the owner's low grade coal (see Figure 5.7).

The high annual precipitation (about 100 inches at higher elevations) in the Puntledge basin, combined with natural storage in Comox Lake, make this basin favourable for hydro-electric development. The storage dam at Comox Lake was needed to increase the minimum flow, thereby increasing the reliable (firm) power output.

Most coastal basins, with storage potential, would be good places for building small hydro projects.

PROJECT SUMMARY
PUNTLEDGE RIVER DEVELOPMENT - 7000 kW

Location: About 10 miles upstream from Courtenay.

Dates: Initial development 1911-13; reconstructed 1955 and 1981-82.

Present Status: Project operating in its reconstructed form.

Dams:

1. **Comox Lake storage dam (built in 1955):** reinforced-concrete buttress dam 30 feet high, 300 feet long; free-overflow spillway 100 feet long (see Figure 5.7).
   Outlets: six low-level outlets each 5 ft x 6 ft, with vertical axis Butterfly gates controlled from the crest of the dam.

5.7 PROJECT SUMMARY (..Cont'd)

PUNTLEDGE RIVER DEVELOPMENT - 7000 kW

2. **Diversion dam, 2½ miles downstream from storage dam:** reinforced-concrete buttress dam, 168 feet long, 15 feet high; earth embankment 60 feet long; free-overflow spillway 100 feet long (see Figure 5.7).

   Outlets: two outlets discharging into canal, each outlet 6ft by 7ft, with vertical steel gates on roller bearings.

Canal and Flumes: Alternating sections of canal and wood-stave flume 3624 feet long leading to forebay; canal partly excavated in rock or earth, lined with concrete or pressed brick; flumes semi-circular, 12 ft diameter.

Forebay: Reinforced concrete, 30 ft high, 25ft diameter; inflow controlled by Tainter gate, 12 feet wide by 10 feet high, electrically operated; forebay contains sediment trap with sluice gate blow off, and screens.

Pipelines: 5370 feet of 8ft diameter wood-stave pipe, connected to a Y, each branch of which is controlled by a gate valve; one branch is in use; to it is connected 4465 feet of 6ft diameter wood-stave pipe, connected to double Y with four 50 inch branch outlets; two branches in use; to each are connected 3170 ft of 50 inch diameter wood-stave pipe, then 660ft of 50 inch diameter riveted steel pipe.

Total conduit length from diversion dam to powerhouse was 3-1/4 miles of which 3624 ft of open conduit, 13703 ft of pressure pipe.

Head: 350 feet gross head

5.7 PROJECT SUMMARY (..Cont'd)

PUNTLEDGE RIVER DEVELOPMENT - 7000 kW

Powerplant:

Turbine	Speed	Governor	Generator
2/6000 hp (max) horizontal reaction turbines by Escher-Wyss. Relief valves to prevent excessive pressure in penstock	500 rpm	oil-pressure; operating turbine wicket gates and relief valve	2/4400 kVA Canadian General Electric, generating 13200 V, 25 cycles per second, 3-phase.

Transmission:	9.3 miles long, wood pole construction.
Cost: (1915)	$70 per horsepower at the powerhouse; for complete development about $60 per horsepower.

5.8 OCEAN FALLS DEVELOPMENT - OCEAN FALLS

This development, built to provide power for a pulp mill, is the largest development described in this publication. The details are shown in the Project Summary; photos of the dam and powerplant are shown in Figure 5.8.

The site was probably selected because of the availability of a large source of hydro power close to salt water, where docking facilities could be built for large ocean steamers. The high annual precipitation (over 173 inches at sea level), and the storage created by building a dam, provided power for the mill. However, the gross head on the powerplant varies from 99 feet to 150 feet with changes in the reservoir level and the tides. During the winter, if the reservoir level was low, hydro power had to be supplemented with power from the steam plant.

PROJECT SUMMARY
OCEAN FALLS DEVELOPMENT - 10,200 kW

Location:	At Ocean Falls, 300 miles northwest of Vancouver.
Dates:	Initial development 1915-17.
Status:	Dam and powerplant still exist; powerplant operating partially.
Dams:	**Old Dam:** Concrete gravity dam, 60 feet high. **New Dam:** built at the site of the old dam, in about 1919 Concrete gravity dam curved in plan, maximum height 90 feet, crest length 692 feet; free overflow spillway, crest length 365 feet, maximum discharge 16,500 cfs.
Penstock;	Two riveted steel pipes 12 feet diameter, one 966 feet long leading to the old powerhouse, one 550 feet long leading to the new powerhouse. Intake gates, in the dam, are 12 feet square motor driven slide gates.

5.8 PROJECT SUMMARY (..Cont'd)

OCEAN FALLS DEVELOPMENT - 10,200 kW

Head: 145 feet average gross head with new dam (head varies with tide and reservoir level changes).

Powerplants: **Powerhouse No. 1**

Turbine	Generator/Grinder
3/900 hp James Gordon	3/600 kW Westinghouse generators
6/1400 hp Jens Orten-Boving Francis type	18 pulp grinders

Powerhouse No. 2

Date Installed	Turbine	Speed	Governor	Generator
1916	2/2100 hp Francis type horizontal shaft, by Pelton	225 rpm	-	2/1875 kVA Canadian General Electric
1916	4500 hp Francis type horizontal shaft, by Pelton	360 rpm	Woodward	3750 kVA Canadian General Electric
1923	6300 hp Francis type horizontal shaft, by Pelton	400 rpm	Woodward governor; plus relief valve on turbine to prevent sudden pressure rise	5250 kVA Canadian General Electric

Later Developments

1929	Tainter gates, 25 feet wide by 9 feet high, added to spillway to increase storage.
1930	Tunnel, 510 feet long built from Martin lake into Link Lake, to increase water supply.
-	Steam powerplant added; total capacity 14,000 kW.

5.9 HEDLEY CREEK AND SIMILKAMEEN RIVER DEVELOPMENTS - HEDLEY

These two developments were built by the Hedley Gold Mining Company some time before 1915. The area is dry and the annual precipitation at Hedley is only 12 inches.

The Hedley Creek development was built first, but it was soon found that the low flows in summer could not produce sufficient power for the mine. A steam plant was built to supplement power. As the demand for power increased, the development on the Similkameen River was built.

The minimum flow in the Similkameen River is considerably higher than that in Hedley Creek, because the drainage area of the Similkameen is much larger, and the precipitation in its headwater area is greater than the precipitation in Hedley Creek. Both these developments illustrate that long flumes (2½ and 3 miles) can be used to produce hydro electric power economically.

PROJECT SUMMARY
HEDLEY CREEK AND SIMILKAMEEN RIVER DEVELOPMENTS - 1320 kW

Location:	Both developments within 3 miles of Hedley.
Dates:	Both developments built before 1915.

Hedley Creek Development

Dams:	Wood-crib storage dam at outlet of Clearwater Lake, on Hedley Creek, about 3 miles from Hedley; water passes down creek to a small diversion dam.
Flume and Pipeline:	Wooden flume, 13,000 feet long, 4 feet square, led to forebay; two 20 inch steel pipes to powerhouse.
Head:	412 feet gross head

5.9 PROJECT SUMMARY (..Cont'd)

HEDLEY CREEK AND SIMILKAMEEN RIVER DEVELOPMENTS - 1320 kW

Powerplant:

Turbine	Speed	Generator/Compressor
550 hp Doble wheel	150 rpm	400 kVA Canadian Westinghouse generator
Knight wheel	-	Canadian Ingersoll-Rand compressor for mine

Similkameen River Development

Dam: Stoplogs supported by concrete piers, 350 feet long, 20 feet high; stoplogs can be removed to pass floods (see Figure 5.9).

Canal, flume and pipe: Earth canal 1700 feet long; wooden flume 13,300 feet long, 9 feet wide by 7 feet high (see Figure 5.21); wooden forebay; riveted steel pipe to powerhouse, 8 feet diameter, 70 feet long (see Figure 5.9).

Head: 67 feet gross head.

Powerplant:

Turbine: 2100 hp Francis type, by Morgan Smith, 400 rpm

Generator: 1250 kVA, 3 phase, 60 cycle, 6600 volt, Canadian Westinghouse.

Transmission: To mill, 3½ miles, 6600 volts.

5.10 WOODWORTH LAKE DEVELOPMENT - PRINCE RUPERT

The Woodworth Lake development (also known as the Shawatlan development) was built in 1914 to supply Prince Rupert with power and additional water supply. Work began in January 1914 and the hydro plant went into operation in November 1914. The area is well suited for hydro development, with a high annual precipitation (greater than 100 inches over the basin), high runoff and an existing lake for storage.

The project was taken over by BC Hydro in 1965. In 1979 the plant was shut down because the switchyard structures and equipment had deteriorated, and it was uneconomical to replace them. The turbine and generator were removed and are held in storage by BC Hydro.

PROJECT SUMMARY
WOODWORTH LAKE DEVELOPMENT - 900 kW

Location:	7 miles northeast of Prince Rupert
Dates:	Built 1914; plant shut down 1979.
Dam:	Concrete gravity dam (see Figure 5.10), 40 feet high, 110 feet long including free-overflow spillway section 50 feet long; two 45 inch pipes through dam with slide gates at downstream end, one pipe leads to the power house, the other is a low level outlet.
Pipeline:	Steel pipe, lap welded, belt-and-spigot joints, 45 inches diameter, 7800 feet long to powerhouse. Water supply pipe take off just upstream of powerhouse: this pipe is 18 inches diameter, 14,000 feet long, and connects to an existing 18 inch pipe which runs 5 miles to Prince Rupert.
Head:	330 feet gross head

5.10 PROJECT SUMMARY (..Cont'd)

WOODWORTH LAKE DEVELOPMENT - 900 kW

Powerplant:	**Turbine:** 1650 hp, 515 rpm, Canadian Allis-Chalmers Francis type. **Generator:** 1125 kVA, 3 phase, 60 cycle, 4400 volt Canadian General Electric.
Transmission:	Wood pole line 5½ miles long to Prince George.
Standby Power:	Steam powerplant, 300 kW.
Present Status:	Powerplant shut down in 1979, turbine and generator removed in about 1980; dam repaired in 1984, now used for water supply only.

5.11 GOAT RIVER DEVELOPMENT - CRESTON

This plant was built in 1932-33 to supply power to Creston and surrounding district. In 1953 Creston was tied into a transmission line from the Kootenay River plants, and power from the Goat River plant dropped to about 2% of its capacity. The plant has not generated power since 1975.

This was a run-of-river plant with no storage and in the winter there were often shortages of water for power.

The dam, penstock and powerplant still exist (see Figure 5.11), but the forebay has filled with gravel.

PROJECT SUMMARY
GOAT RIVER DEVELOPMENT - 1185 kW

Location: On the Goat River 3 miles north of Creston.

Dates: Built 1932-33; no power produced since 1975.

Dam: Reinforced concrete "arch-type" dam 87 feet high, crest length 175 feet.

Pipeline: Steel penstock 160 feet long, 6 feet diameter.

Head: 65 feet gross head

Powerplant:

Turbine capacity:	250 hp	800 hp	800 hp
Installed Date:	1933	1934	1949
Generator:	1185 kW, 2300 Volts		

Auxiliary Power: 3/100 kW diesel generators

Transmission Line: 3 miles, 6.9 kV

Present Status: Dam, penstock and powerplant exist but not operating.

5.12 SWANSON CREEK DEVELOPMENT - SWANSON BAY

Swanson Creek was developed before 1915 to produce power for a sulphite pulp mill and a sawmill at Swanson Bay.

The average annual precipitation at Swanson Bay, from 1912 to 1918, was 180 inches, the highest recorded in British Columbia at the time. This high precipitation combined with the existence of Yule Lake, 7 miles long, in the Swanson Creek basin, made the creek a good source of hydro power. A head of 156 feet was used for this development, although a head of 342 feet was available between Yule Lake and tidewater.

It is probable that nothing remains of this plant.

PROJECT SUMMARY
SWANSON CREEK DEVELOPMENT - 320 kW

Location:	Near Swanson Bay, on the mainland coast opposite Princess Royal Island, about 130 miles south of Prince Rupert.
Dates:	Plant built before 1915
Dams:	Rock-filled timber-crib storage dam, 100 feet long; small diversion dam 2000 feet downstream of storage dam.
Pipeline:	Wood-stave, 5 feet diameter.
Head:	156 feet gross head.
Powerplant:	**for hydro-electric generation:** 120 kW and 200 kW Canadian General Electric generators. **for mechanical power:** 860 hp in shingle mill and 1000 hp in sawmill.
Present Status:	Not known.

5.13 KUSKANAX CREEK DEVELOPMENT - NAKUSP

Kuskanax Creek was developed around 1920 by the Nakusp Electric Light and Power Co to supply power to Nakusp and the sawmills nearby.

There is very little information about this project, but it was probably built in a canyon about one mile from the mouth of Kuskanax Creek. Flows measured in 1914 were never below about 100 cfs, which was probably used as the basis of design.

The lowest flow since that time was 40 cfs. With this flow Kuskanax Creek would provide about 80 kW of firm power at the old site. If alternative standby power were available during extremely cold spells in the winter, the firm power would increase to about 200 kW.

PROJECT SUMMARY
KUSKANAX CREEK DEVELOPMENT - 250 kW

Location:	Near Nakusp
Dates:	Built between 1915 and 1924
Dam:	Rock-filled timber crib intake dam with 8-foot long spillway.
Flume and Pipe:	Flume, 1000 feet long, leading to forebay 16 feet long, 4 feet wide, 8 feet high. Wood-stave pipe, 3000 feet long, 10 inches diameter, leading to powerhouse.
Head:	About 40 feet gross head.

5.13 PROJECT SUMMARY (..Cont'd)
KUSKANAX CREEK DEVELOPMENT - 250 kW

Powerplant:

Turbine	Speed	Generator/Compressor
100 hp 2-foot diameter Pelton wheel with four 1 inch nozzles	600 rpm	70 kW 1,100 Volt, single phase
200 hp	-	180 kW Westinghouse 2,200 Volt, 3 phase

Present Status

Turbine and generator have been refurbished and re-installed in the Rendell Creek Ranch community on the Kettle River in Christian Valley.

5.14 MILLSTREAM RIVER AND COAL CREEK DEVELOPMENT - NANAIMO

These projects were built by the Nanaimo Electric Light, Power and Heating Co to supply power to Nanaimo. Millstream River was also referred to as Millstone River in Reference 2.

It is not known what happened to these plants.

PROJECT SUMMARY
MILLSTREAM RIVER AND COAL CREEK DEVELOPMENT

Location:	Millstream project one mile from mouth of river, near Nanaimo.
Dates:	Millstream built before 1918. Coal Creek built before 1930.
Dam:	**On Millstream:** Earth-fill, clay core, 35 feet high, storage dam.
Flume and Pipeline:	**On Millstream:** Ditch 700 feet long; 3ft x 4ft wood flume 2000 feet long lead to tank; wood-stave pipe 30-inch diameter, 2000 feet long, and a 26-inch diameter pipe 500 feet long.
Head:	177 feet gross head; 129 feet net head.

5.14 PROJECT SUMMARY (..Cont'd)
MILLSTREAM RIVER AND COAL CREEK DEVELOPMENT

Powerplants:

	Turbine	Speed	Generator
Millstream:	450 hp 3 Pelton wheels on one shaft	165 rpm	150 kW and 200 kW Canadian General Electric generators belt-driven from shaft.
Coal Creek:	200 hp (probably Pelton) with Pelton-type oil pressure governor	-	164 kW Canadian General Electric direct connected to turbine.
Standby Power:	450 hp James Howden engine		240 kW Bruce Peebles generator direct connected to engine.

5.15 GRANITE FALLS DEVELOPMENT - INDIAN ARM

Granite Falls development on Grand Creek at the north end of Indian Arm was built by Coast Quarries Ltd to provide mechanical power for the operation of a granite quarry and crushing-plant.

The details of this plant are not clear. The information given in the summary was taken from Reference 3; however, in Reference 2 the following information was given:

- 250-400 hp required to operate the quarry plant, but in dry season only half this is available.
- 300 feet head is developed; proposed to increase to 500 feet; 1000 to 1500 feet can be obtained.

In Reference 4 the plant is shown as having the following installed capacity of:

- 55 hp for electric power
- 175 hp for mechanical power

The annual power output of this plant has been reported from 1939 to 1977, during which time the annual output varied from an average of 4 hp to 400 hp and the peak electrical output varied from 3 kW to 40 kW. There is still a small hydro plant at the site, but no details of the plant are available (March 1986).

This appears to be a good site for a small hydro development. The average annual precipitation is about 80 inches, and a small lake - Iron Lake - about 4½ miles from the mouth of Grand Creek, could be used for storage to augment streamflows during low flow periods.

5.15 PROJECT SUMMARY (..Cont'd)

GRANITE FALLS DEVELOPMENT - 95 HORSEPOWER

Location: North end of Indian Arm, 10 miles from Deep Cove.

Dates: Initial development before 1918, enlarged in 1923, first water licence 1906.

Dam: Concrete, 60 feet long, 12 feet high, built at head of falls. (see Figure 5.15)

Penstock: Riveted steel pipe, diameter varies from 24 to 12 inches.

Powerplant:

Turbine	Connected Equipment
40 hp Pelton	Air compressor, belt-connected
20 hp	Rock crusher
30 hp	Rock crusher
5 hp	3.5 kW generator

By 1932 there were 10 Pelton wheels installed, ranging from 10 HP to 100 HP with a total of 430 HP.

Present Status: Status of original plant and details of existing plant unknown.

5.16 COUGAR LAKE DEVELOPMENT - PRINCESS ROYAL ISLAND

This development was built in about 1916 by the Surf Inlet Power Co to supply power to the gold-mining properties of the Belmont-Surf Inlet Mines Ltd. One of the reasons for building a fairly large dam (see Figure 5.16) was to solve the problem of transporting materials to and from the mine through a series of three lakes which were at different levels. The dam created a single lake stretching from salt-water to within one mile of the mine. Mining supplies for the mine, and concentrates from the mine, were transported along the lake in rail cars on a barge. An electric hoist at the dam allowed the loaded cars to be hauled from a ship at the wharf, up past the dam onto the barge.

With a very high precipitation over the basin (180 inches per year measured at nearby Swanson Bay 1912-18) the Cougar Lake Development would have been a good source of hydro power.

Power was last produced in 1952. The powerhouse has since been dismantled and all the equipment including the turbines and generators have been removed. The dam is still in satisfactory condition and is inspected by the Water Management Branch dam inspectors every four years.

PROJECT SUMMARY
COUGAR LAKE DEVELOPMENT - 750 kW

Location:	Surf Inlet, Princess Royal Island, about 130 miles south of Prince Rupert.
Date:	Built about 1916; last power produced 1952.
Dam:	Reinforced concrete buttress and flat slab dam (Ambursen type), 74 feet high, 430 feet long, with free overflow spillway crest 288 feet long; spillway capacity 25,000 cfs, gate chambers for two 6-foot diameter penstocks.
Penstock:	Steel and continuous woodstave, 6 feet diameter, 330 feet long.
Head:	70 feet gross head.

5.16 PROJECT SUMMARY (..Cont'd)

COUGAR LAKE DEVELOPMENT - 750 kW

Powerplant:

Turbine	Speed	Generator/Compressor
Two Francis type turbines with cast iron spiral case, by Pelton Water Wheel Co.	600 rpm	2/374 kW, 440-Volt, 3-phase 60-cycle generators

Transmission Line:	6 miles of wood pole line, 22,000 volts.

5.17 JUNIPER CREEK DEVELOPMENT - SKEENA CROSSING

The Juniper Creek plant was built in about 1914 to provide power to a copper mine operated by Montana Continental Development Company. The plant was one of the most northerly in BC at that time. The Project Summary shows details of the plant; no other information is available.

To reduce the head loss in the 3780 feet of pipeline, the velocity was kept low by using a diameter as large as economically feasible. It appears that prefabricated pipe was used, and each size of pipe was designed for a selected maximum head.

PROJECT SUMMARY
JUNIPER CREEK DEVELOPMENT - 150 kW

Location: On Juniper Creek about 4½ miles east of Skeena Crossing which is 13 miles south of Hazelton.

Dates: Built before 1915.

Dam: Timber crib diversion dam 6 feet high, 40 feet long.

Pipeline: Wood-stave pipe, total length 3783 feet made up as follows:

Length	Diameter	Maximum Head
1000 feet	24 inch	50 feet
1000 feet	22 inch	100 feet
1000 feet	20 inch	150 feet
783 feet	18 inch	212 feet

Head: 212 feet gross head; 178 feet net head at maximum power output.

Powerplant:

Turbine	Generator
225 hp 54 inch diameter Pelton-Doble	187.5 kVA Canadian General Electric 3 phase, 60 cycle, 2300 volt; belt-driven.

5.18 GLACIER DEVELOPMENT - GLACIER

This plant was built to supply power to the Canadian Pacific Hotel at Glacier; power was supplied for about 12 hours a day. The dam provided a small amount of storage, and to increase the flow in the early morning, water was diverted from Asulkan Creek.

PROJECT SUMMARY
GLACIER DEVELOPMENT - 50 kW

Location:	On the Illecillewaet River near Glacier.
Date:	Built before 1913.
Dam:	Concrete dam, 15 feet high, 100 feet long, provided small storage (see Figure 5.18).
Head:	90 feet gross head.

Powerplant:

Turbine	Speed	Generator
2/50 hp	1050 rpm	2/25 kW 125 volt, d.c. belt-driven

Transmission:	1800 feet long to hotel.
Present Status:	Hotel and plant no longer exist.

5.19 FORTUNES CREEK DEVELOPMENT - ARMSTRONG

The powerplant on Fortunes Creek was built in 1908 by a private company and was bought by the city of Armstrong in 1909 to supply power for the city and surrounding area. It met the needs of about 4000 people. The water supply for the city was also taken from Fortunes Creek.

For three months each year the flow in Fortunes Creek was not sufficient to generate power to meet the load. A diesel powerplant, having a capacity larger than the hydro plant, was built to supply power during these low flow months.

PROJECT SUMMARY
FORTUNES CREEK DEVELOPMENT - 100 kW

Location: On Fortunes Creek about 2 miles east of Armstrong

Date: Built in 1908.

Dam: Timber crib diversion dam, 16 feet high

Pipeline: Wood-stave pipe, 3/4 mile long, steel pipe 10 inches diameter, (estimated length 200 feet)

Head: 540 feet gross head.

Powerplant: (see Figure 5.19).

	Turbine	Speed	Generator
	150 hp Pelton	900 rpm	100 kW 3 phase, 60 cycle, 2300 volts, Canadian General Electric direct driven.
Auxiliary Powerplant:	200 hp diesel engine		125 kW

Present Status: unknown

5.20 CASCADE AND FLETCHER CREEK DEVELOPMENTS -PREMIER, NEAR STEWART

The developments on Cascade and Fletcher Creeks about 15 miles north of Stewart were built in about 1920 to supply power to the mines operated by the Premier Gold Mining Company. At that time these hydro-electric developments were the most northerly in British Columbia. The mining property and hydro plants were later taken over by British Silbak Premier Mines.

In about 1935, Cominco started to develop their Big Missouri mine at an elevation of 2800 feet, several miles beyond the Premier mine. A new powerplant on Cascade Creek at Hogg Lake was built between 1936 - 1937 to supply power to the Big Missouri mine and camp. Reference 7 describes the construction of the mine and the hydro project.

Although precipitation in this area is fairly high - average annual precipitation about 80 inches - winters are cold and streamflows are generally very low from December to April. There were no storage reservoirs built for the two older powerplants, so an auxiliary diesel plant was installed. For the Big Missouri powerplant a 40-foot high dam was built to raise Long Lake 22 feet (see Figure 5.20). This created 7000 acre-feet of storage, which increased the average winter flow from about 10 cfs to 40 cfs, and provided firm power of about 1000 kW during low flow periods.

The older powerplants on Cascade and Fletcher Creeks (see Figure 5.20) produced power from 1923 to 1956. Neither of the powerhouses remains, although photographs taken in 1981(8) show parts of a steel penstock (probably for powerplant No 2) and the remains of a Pelton wheel and generator in the open amongst the ruins of a powerplant (probably powerplant No 1).

The powerplant on Hogg Lake is in good condition but has not operated since 1942.

Westmin Resources now own the Premier and Big Missouri mines, and have water rights on Cascade and Fletcher Creeks.

PROJECT SUMMARY
CASCADE AND FLETCHER CREEKS - 850 kW + 1500 kW

Location:	On Cascade and Fletcher Creeks, about 15 miles north of Stewart.
Dates:	Powerplants No 1 and No 2 built about 1920; Big Missouri powerplant built in 1936-37.

Data for Powerplants No 1 and 2:

Powerplant No. 1	Takes water from Fletcher Creek; powerplant No 2 uses water from Cascade Creek.
Dams:	Crib dams on two branches of Cascade Creek for powerplant No. 2.
Pipelines:	**for powerplant No 1:** Steel pipe 3530 feet long, 10 inches diameter with screwed joints; spiral riveted steel pipe 400 feet long, 8 inches diameter (designed for 850 psi). **for powerplant No 2:** Pipes and flumes leading to a 42-inch steel pipe which leads to the powerhouse.

Powerplants	**Head**	**Turbine**	**Generator**
Powerplant No. 1	1400 ft	6 feet dia. Pelton wheel	450 kw 2200 volts, belt-connected to turbine
Powerplant No. 2	150 ft	Pelton wheel with 3 runners	400 kW 2300 volt, direct connected to turbine

Powerplant No. 2 Designed to be controlled directly from switchboard in powerplant No 1; occasional visits made to powerplant No 2 to ensure safe operation.

5.20 PROJECT SUMMARY (..Cont'd)
CASCADE AND FLETCHER CREEKS - 850 kW + 1500 kW

Auxiliary Diesel:	4/150 kW diesel engines.
Present Status:	Both plants operated from 1923 to 1956. Plants dismantled or deteriorated; nothing remains of plant No 2; photograph taken in 1981 showed remains of generator and Pelton wheel, probably from plant No 1.

Data for Big Missouri powerplant at Hogg Lake

Dam:	Concrete arch dam on Long Lake, about 100 feet long, 40 feet high, 5½ ft thick at base, 2 feet thick at spillway crest (see Figure 5.20); free-overflow spillway 90 feet long with holes for 2-foot high flashboards.
Tunnel and Pipeline:	Tunnel 840 feet long, 7 ft wide, 6 ft high, from dam abutment, containing steel pipe, 18 feet long, 36 inches diameter connected to wood-stave pipe 822 feet long, 32 inches diameter; Wood-stave pipe continues for 460 feet in cut and fill sections to face of steep slope above powerhouse - total length from dam to steep slope 1300 feet on grade of 0.5 percent; Wood-stave pipe continues down slope for 1950 feet dropping 503 feet to within 50 feet of powerhouse - lower 1600 feet of pipe made of 1-3/4 inch thick staves, with 5/8 inch bands at 1-1/4 inch centres at the lower end graduating to 1/2 inch bands at 10 inch centres; Wood-stave pipe connected to two 26 inch diameter steel pipes each branching to two 18 inch diameter steel pipes leading to turbines;

5.20 PROJECT SUMMARY (..Cont'd)

CASCADE AND FLETCHER CREEKS - 850 kW + 1500 kW

Valves: Extra-heavy 18 inch gate valves immediately upstream of turbine nozzles.

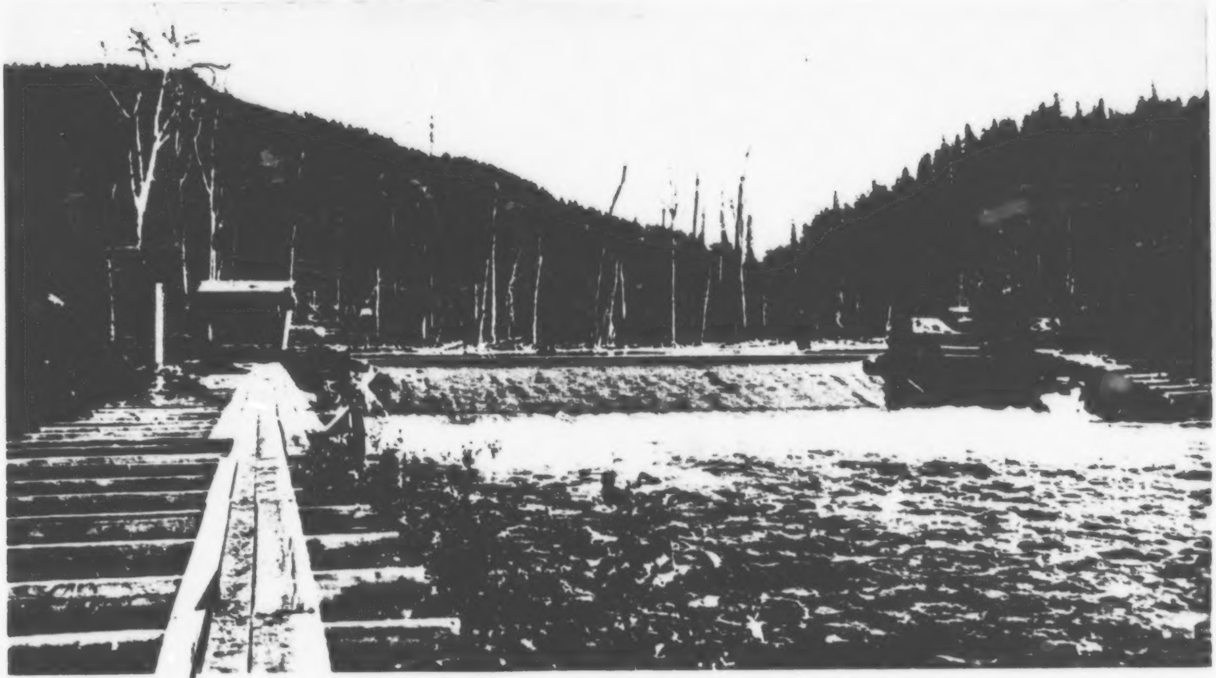
Powerhouse: Concrete foundations 25 x 105 ft; steel superstructure; roof deck 2 in x 8 in (on edge) laminated fir designed to carry 500 lb/sq ft or 22 feet of hard packed snow.

Powerplant:

Head (ft)	Turbine	Speed (rpm)	Governor	Generator
500	4/1700 hp Pelton double overhung wheels	400	Pelton type oil pressure governor, operating deflectors; needle valves operated manually	2/938 kVA 2300 volt, 3 phase 60 cycle Westinghouse
500	75 hp Pelton Doble wheel; used only for starting up plant	900		Exciter: 50 kW, 125 volt 400 amp dc generator, connected to 75 hp 2200 volt 900 rpm motor, connected to Pelton Doble wheel.

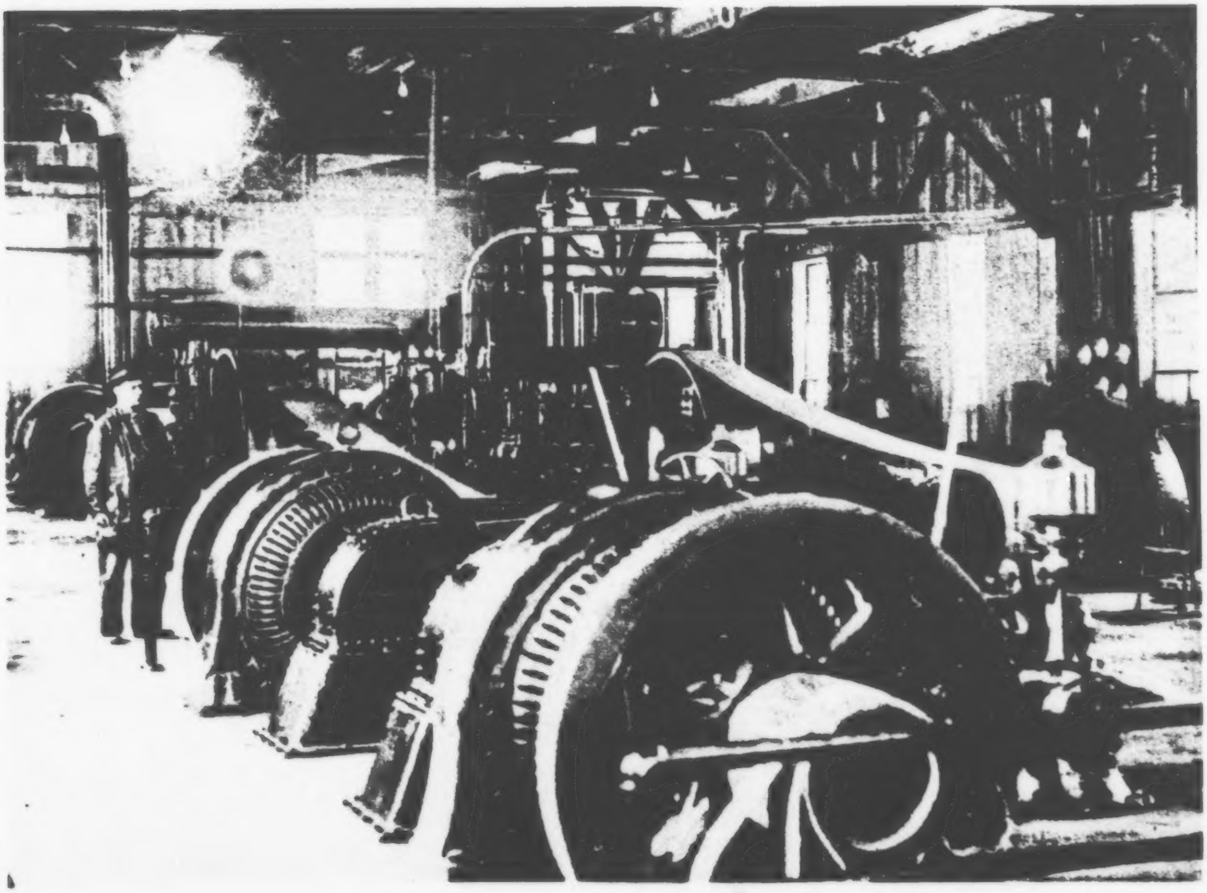
Compressor Duplex tandem two-stage Chicago Pneumatic air-compressor 3465 cfm capacity; driven by 480 kVA, 200 rpm 2200 volt General Electric synchronous motor.

Transmission: 6500 feet long from powerhouse to mine tunnel portal; 2200 volts on woodpole H-frames.



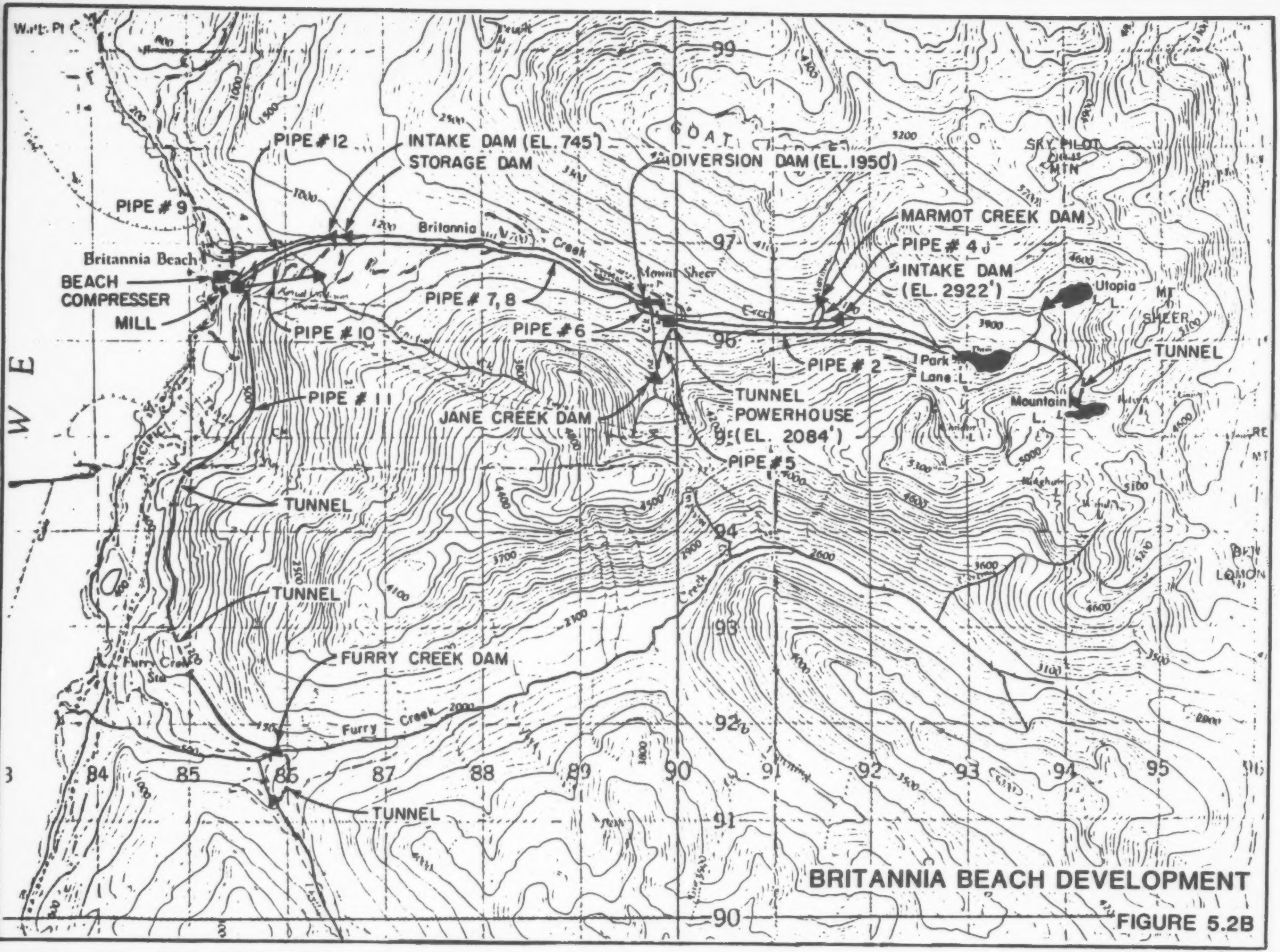
Barrier Diversion Dam–note fish ladders at right

FIGURE 5.1



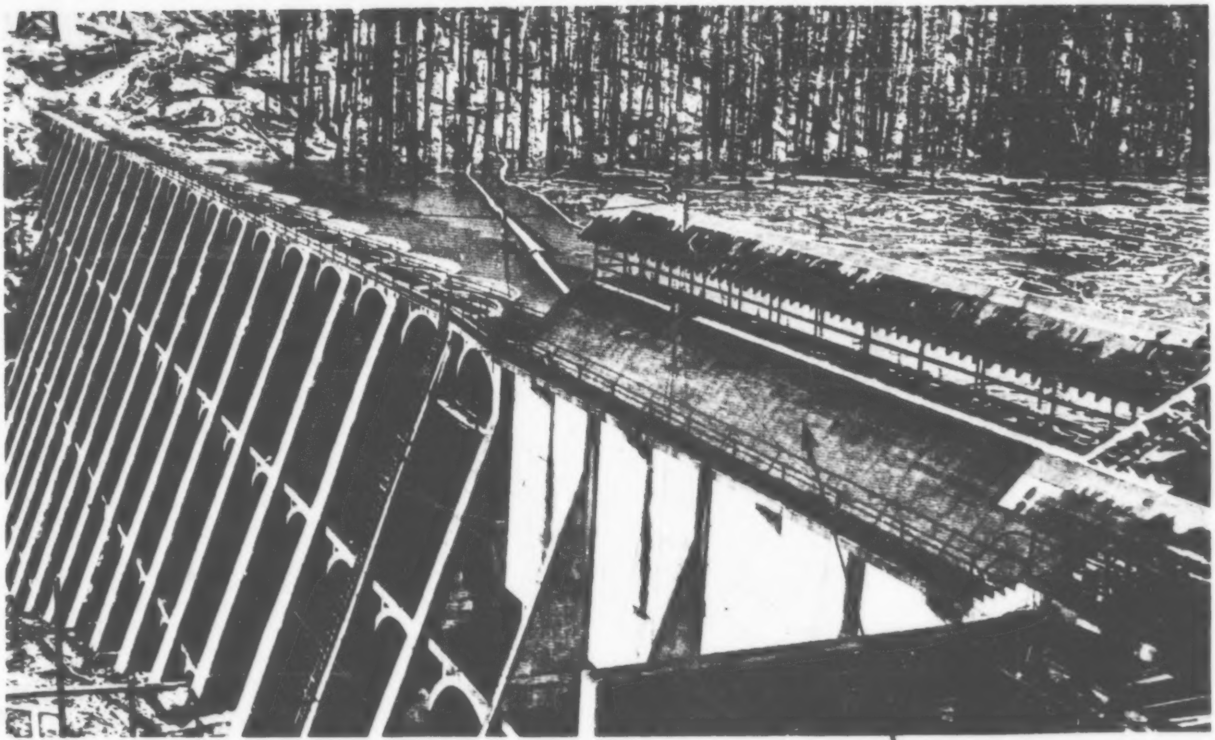
Britannia Power Development–Tunnel Powerhouse about 1920

FIGURE 5.2 A

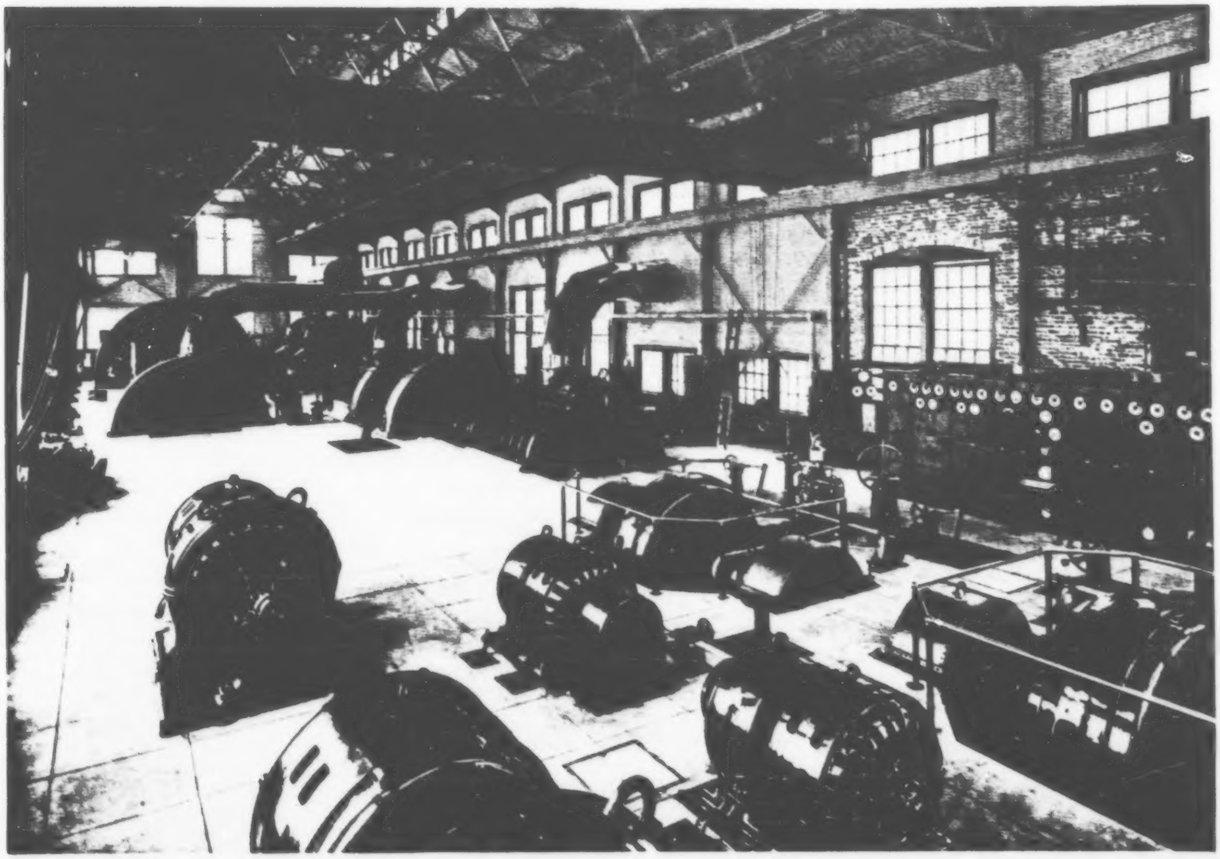

INTAKE DAM (EL. 745')
STORAGE DAM
DIVERSION DAM (EL. 1950')
PIPE # 12
PIPE # 9
Britannia Beach
BEACH
COMPRESSER
MILL
PIPE # 10
PIPE # 7, 8
PIPE # 6
MARMOT CREEK DAM
PIPE # 4
INTAKE DAM
(EL. 2922')
Utopia L.
MT SHEER
TUNNEL
Park Lane L.
PIPE # 2
Mountain L.
TUNNEL
POWERHOUSE
(EL. 2084')
PIPE # 5
PIPE # 11
JANE CREEK DAM
TUNNEL
TUNNEL
FURRY CREEK DAM
TUNNEL
Britannia Creek
Furry Creek
Furry Creek Sta
GOAT
SKY PILOT MTN
W
E
84
85
86
87
88
89
90
91
92
93
94
95
99
97
96
94
93
92
91
90

BRITANNIA BEACH DEVELOPMENT

FIGURE 5.2B


Siphon spillway

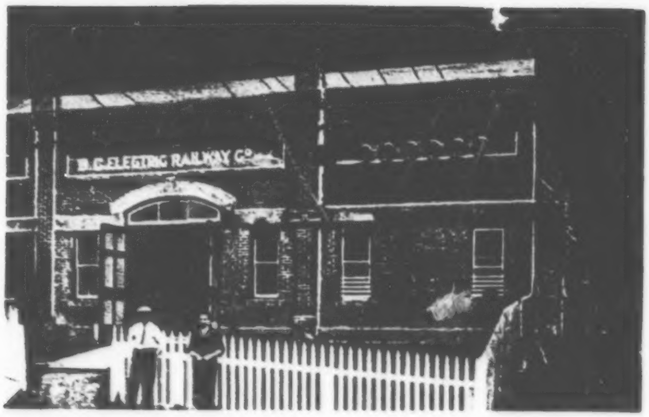
Anyox Dam–1924



Anyox Power Plant

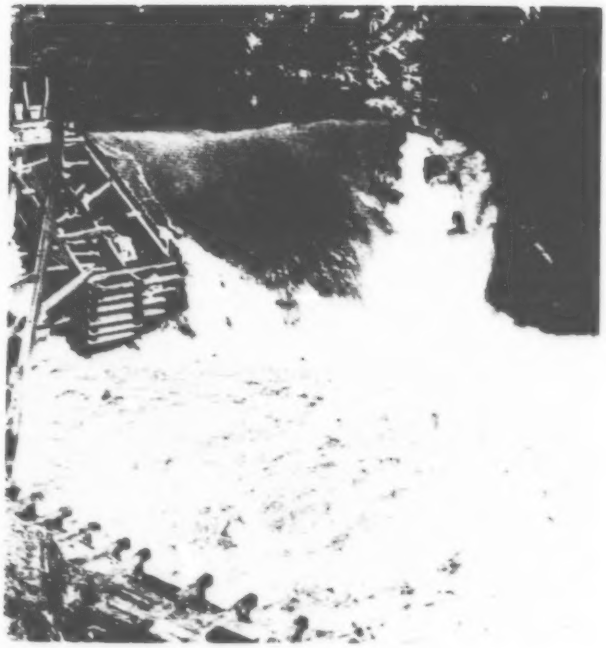
FALLS CREEK DEVELOPMENT–ANYOX

FIGURE 5.3

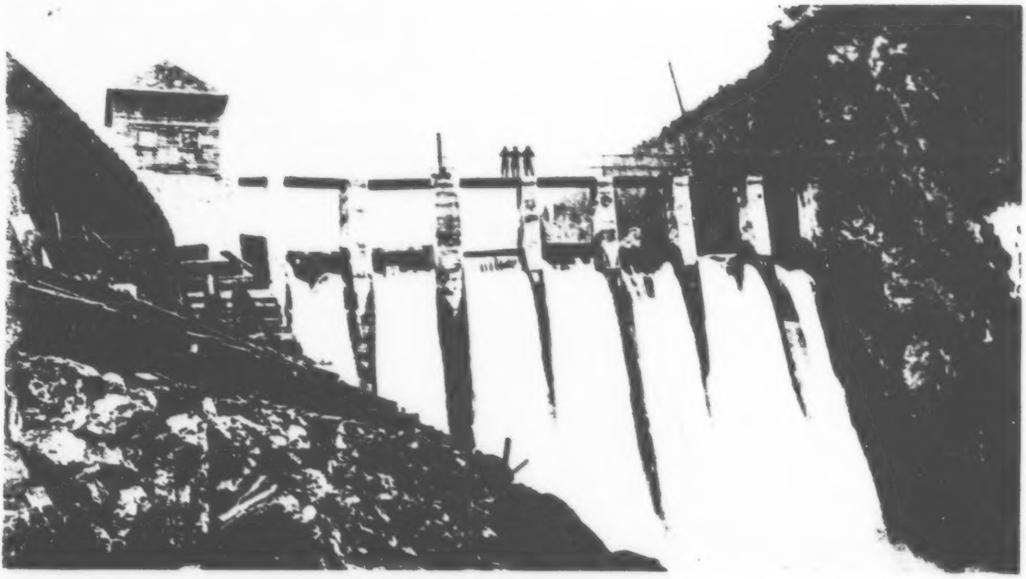

B.C. ELECTRIC RAILWAY Co.

Goldstream Powerhouse – about 1915

FIGURE 5.4

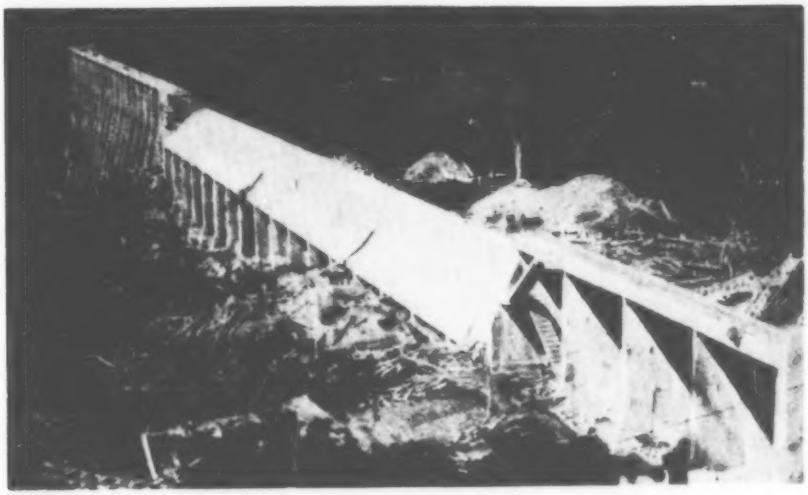


Illecillewaet Falls Log Crib Dam
July 8,1905

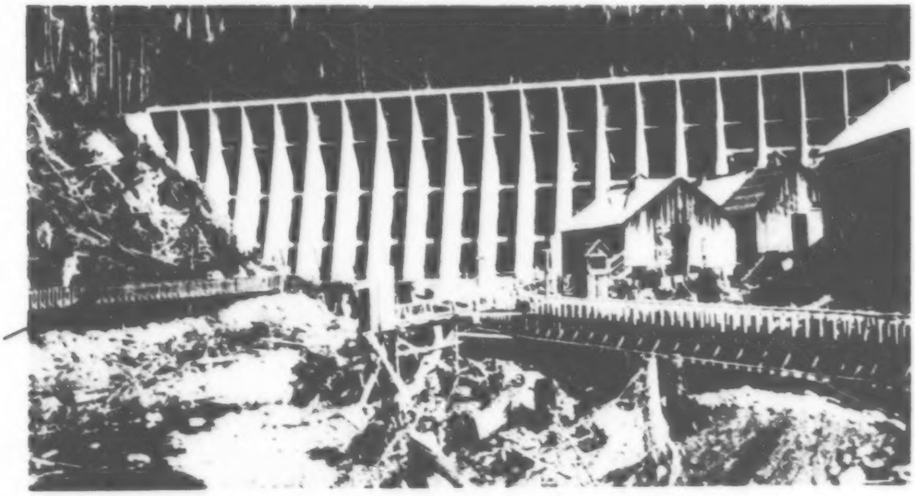


Illecillewaet Dam–1911

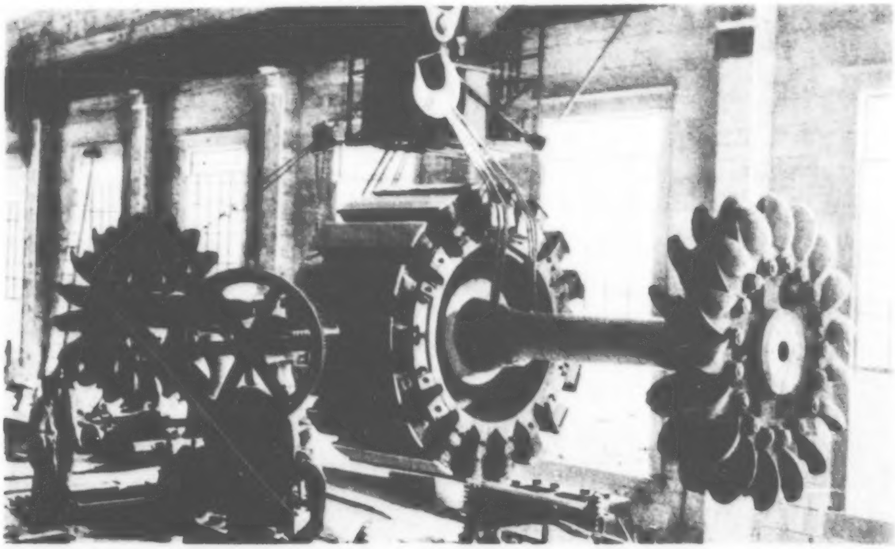
FIGURE 5.5



Diversion Dam–Ambursen Type–showing spillway



Diversion Dam from downstream



Two 6500 hp Pelton–Doble wheels and 6400 kW generator rotor

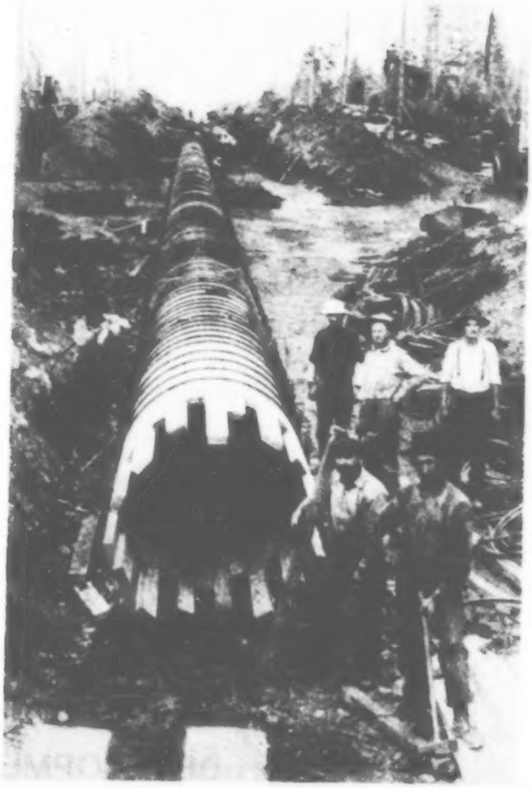
JORDAN RIVER DEVELOPMENT

FIGURE 5.6

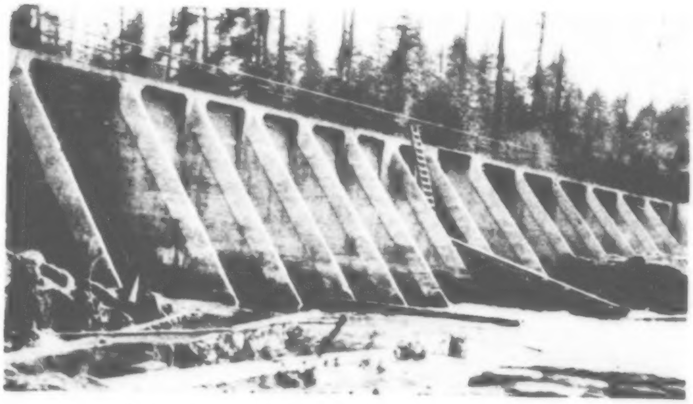
Comox Lake Storage Dam–downstream view

Power flume

Diversion Dam



Woodstave pipe

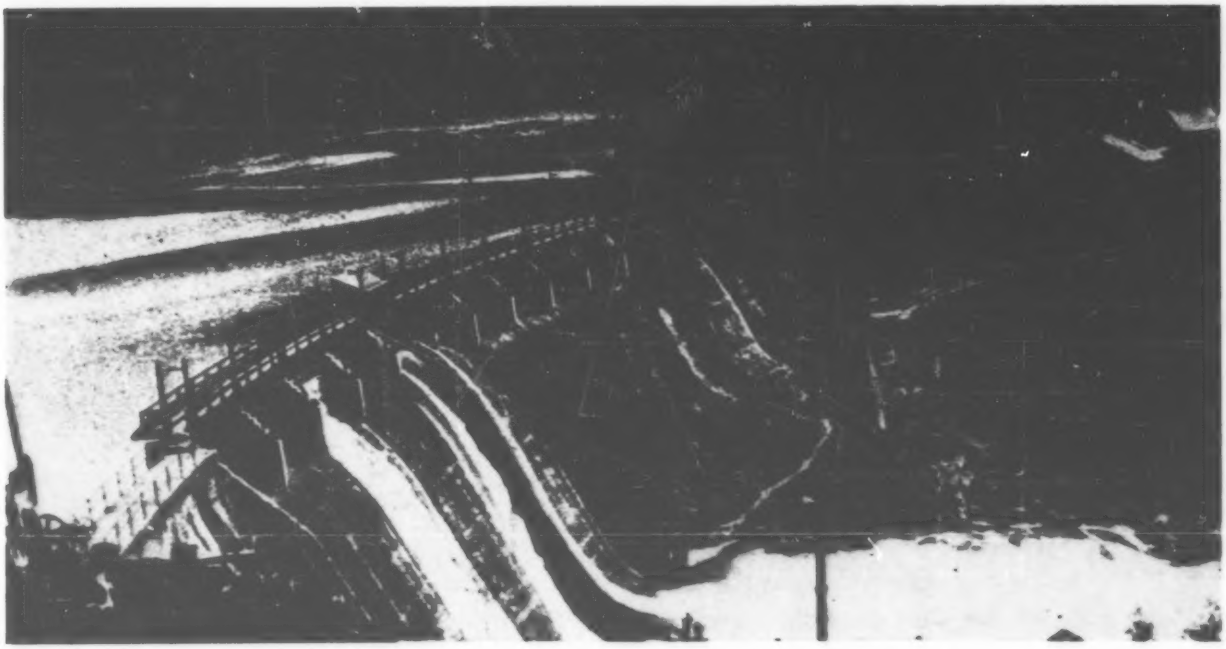


Comox Lake Dam–buttresses

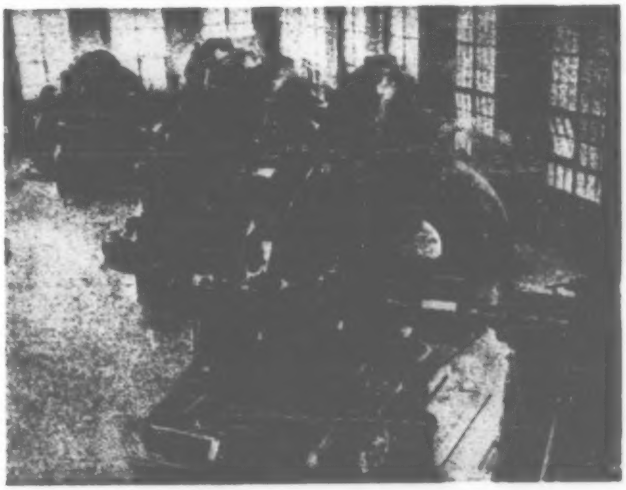
PUNTLEDGE RIVER DEVELOPMENT

FIGURE 5.7

Dam and Power Plant



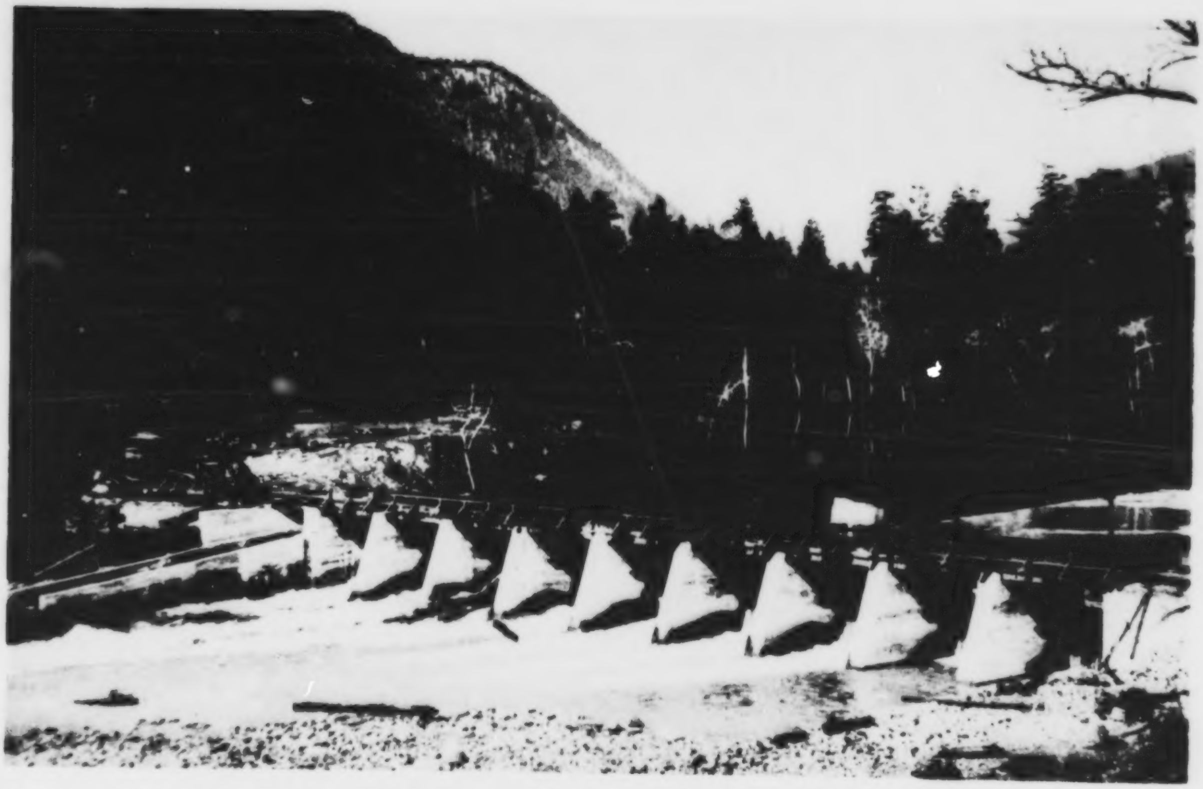
New Dam with Radial Gates–about 1919



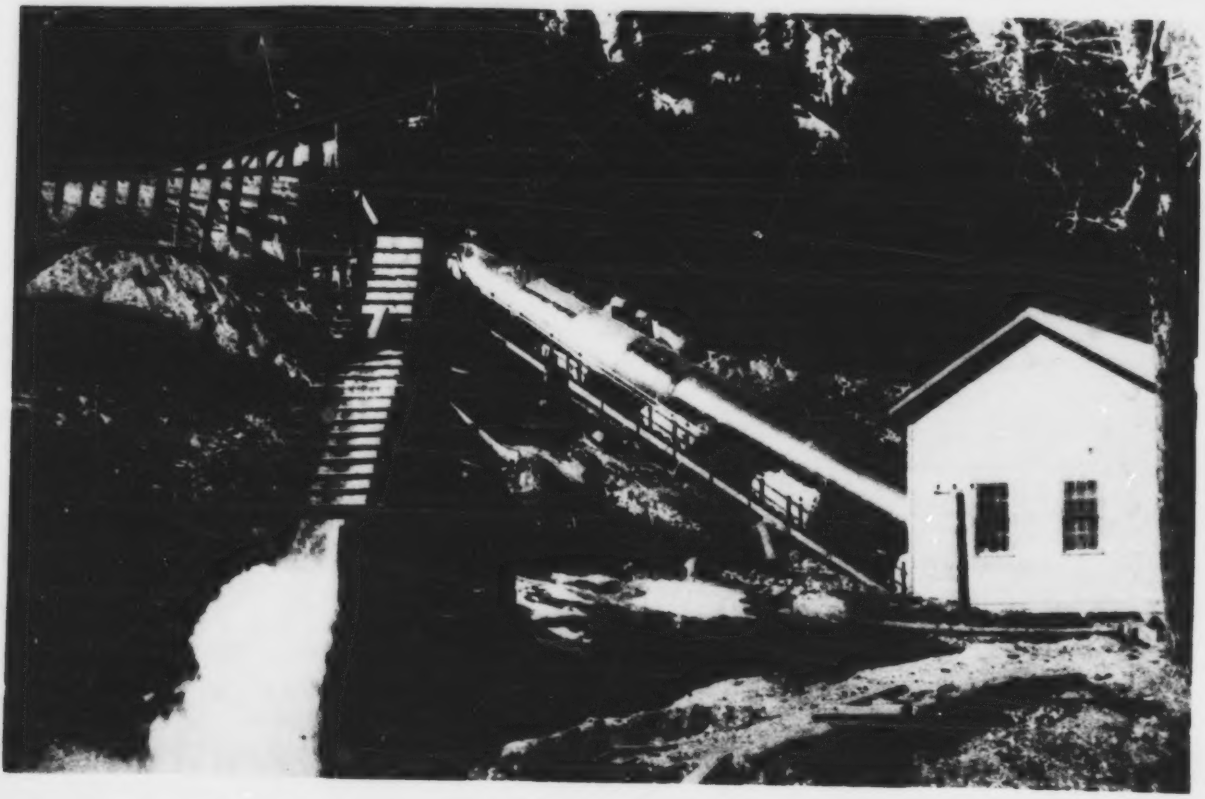
No. 2 Power Plant–completed in 1923

OCEAN FALLS DEVELOPMENT

FIGURE 5.8

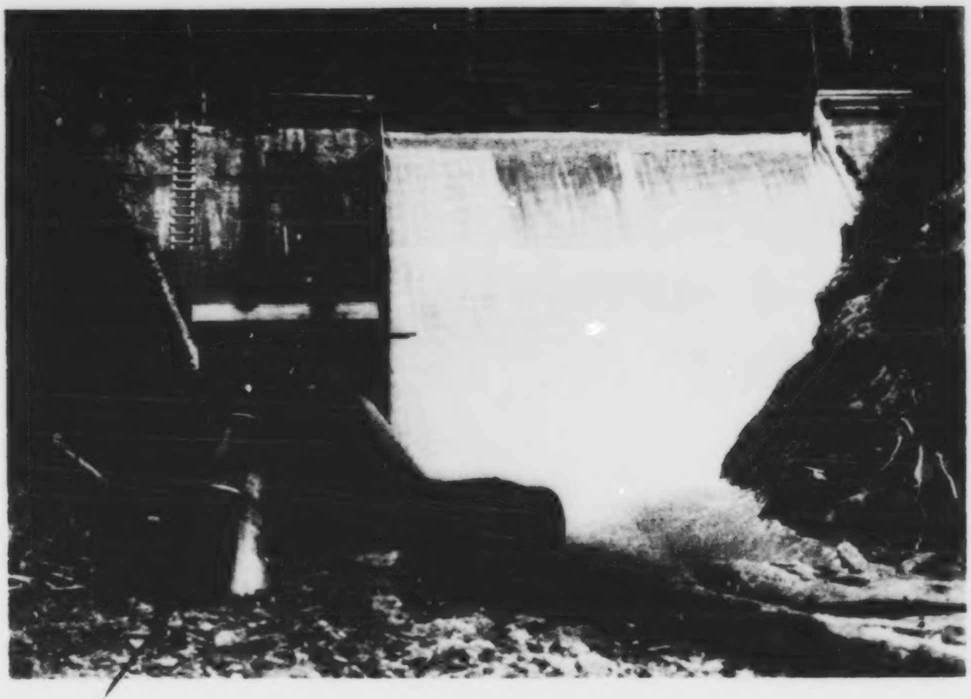


Dam on Similkameen River near Hedley-built before 1915



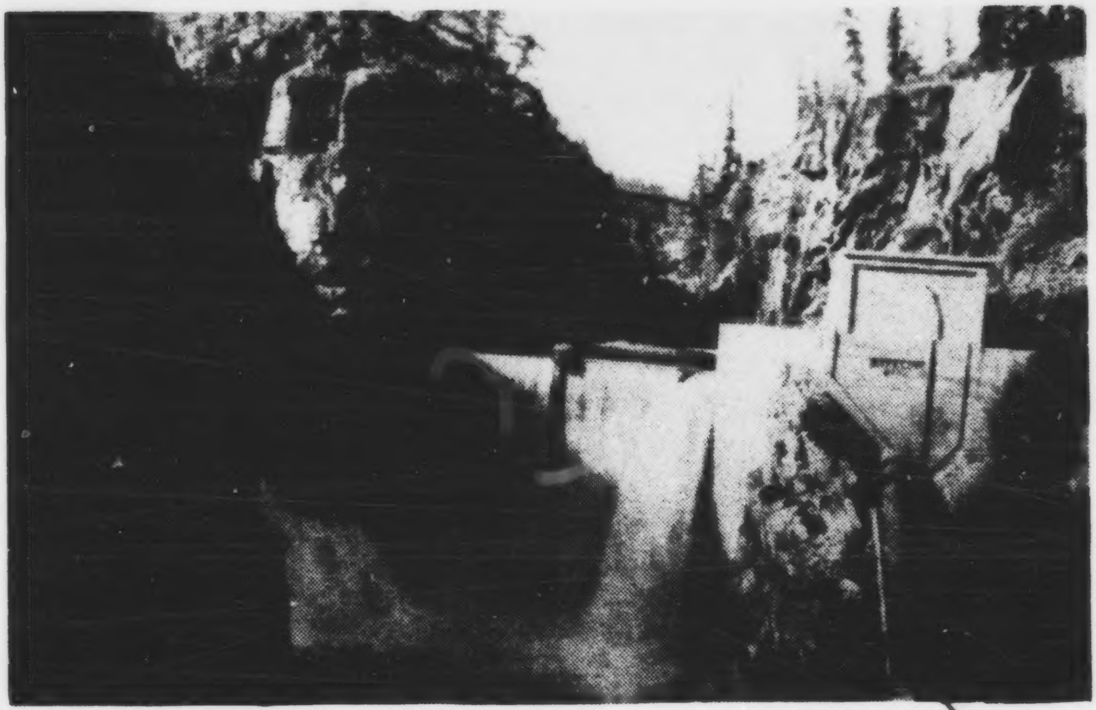
Hedley Power Plant-built before 1915

FIGURE 5.9



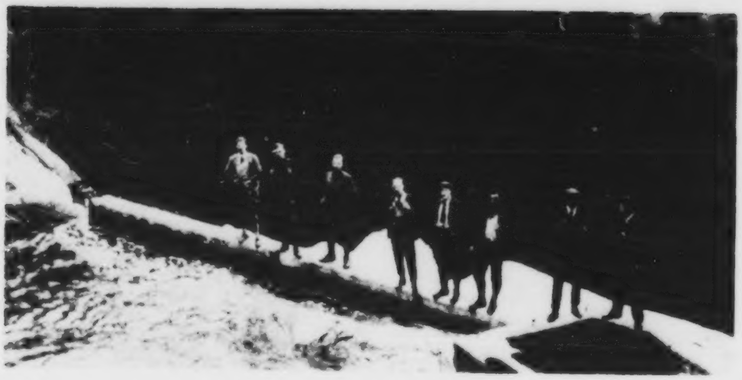
Woodworth Lake Dam

FIGURE 5.10



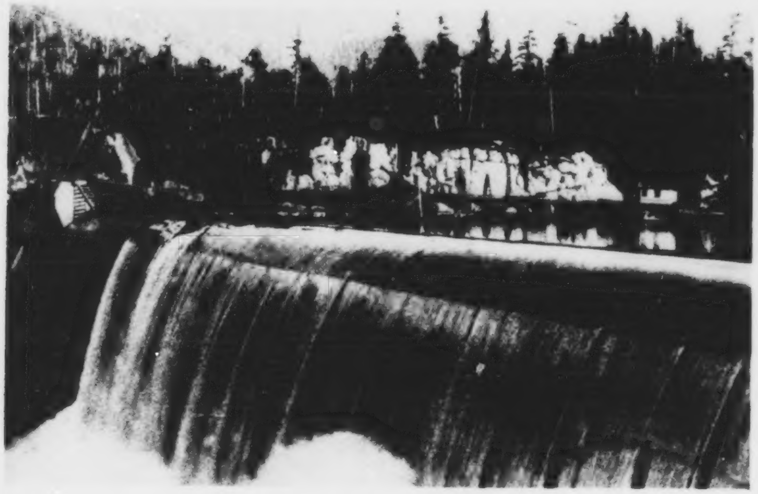
Goat River Dam

FIGURE 5.11



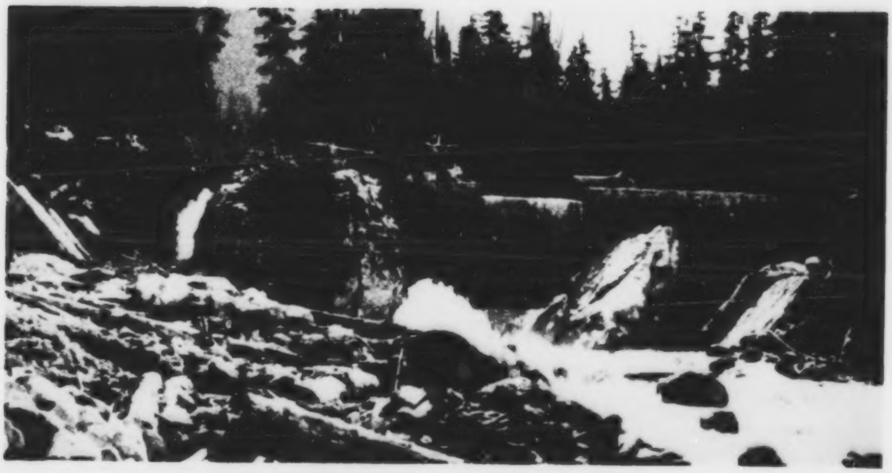
Granite Falls Dam

FIGURE 5.15



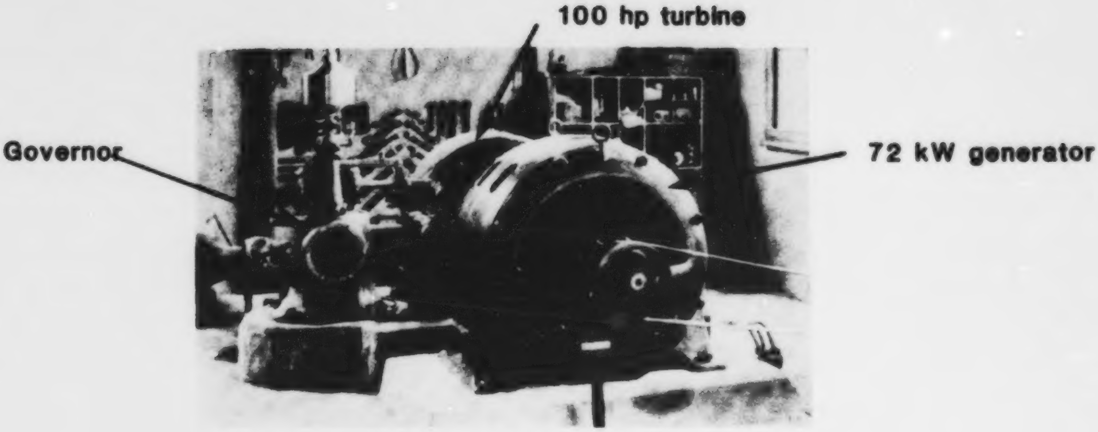
Cougar Lake Dam

FIGURE 5.16



Dam on Illecillewaet near Glacier

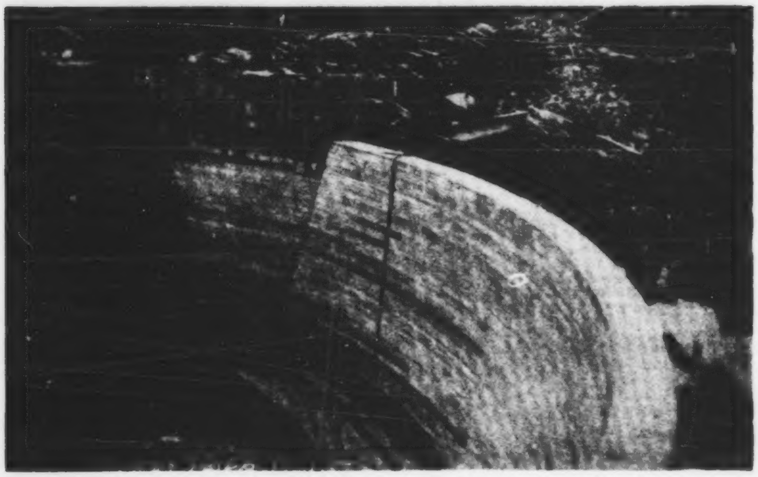
FIGURE 5.18


100 hp turbine
Governor
72 kW generator

Fortunes Creek development–Power plant

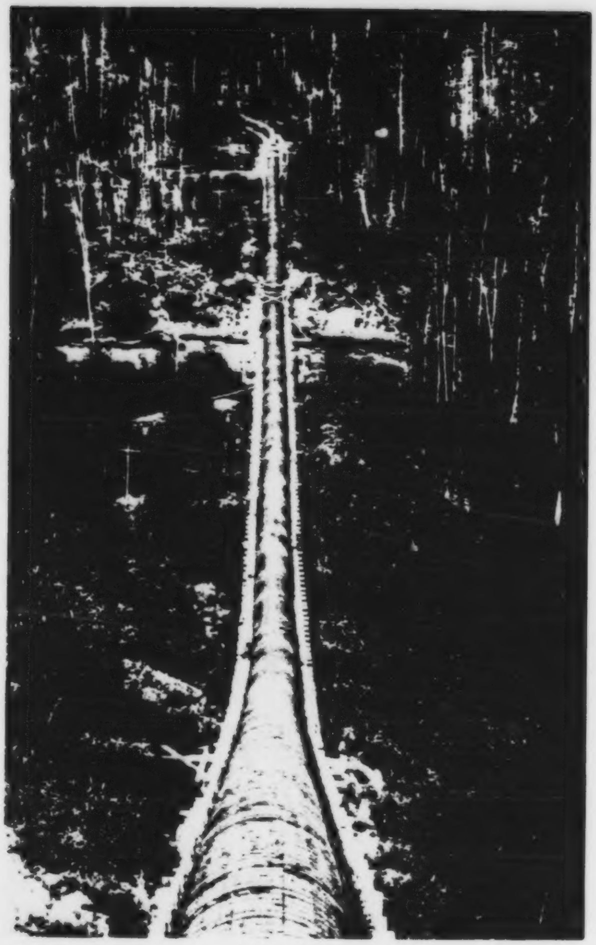
FIGURE 5.19

Cascade Creek development– Power house No. 2



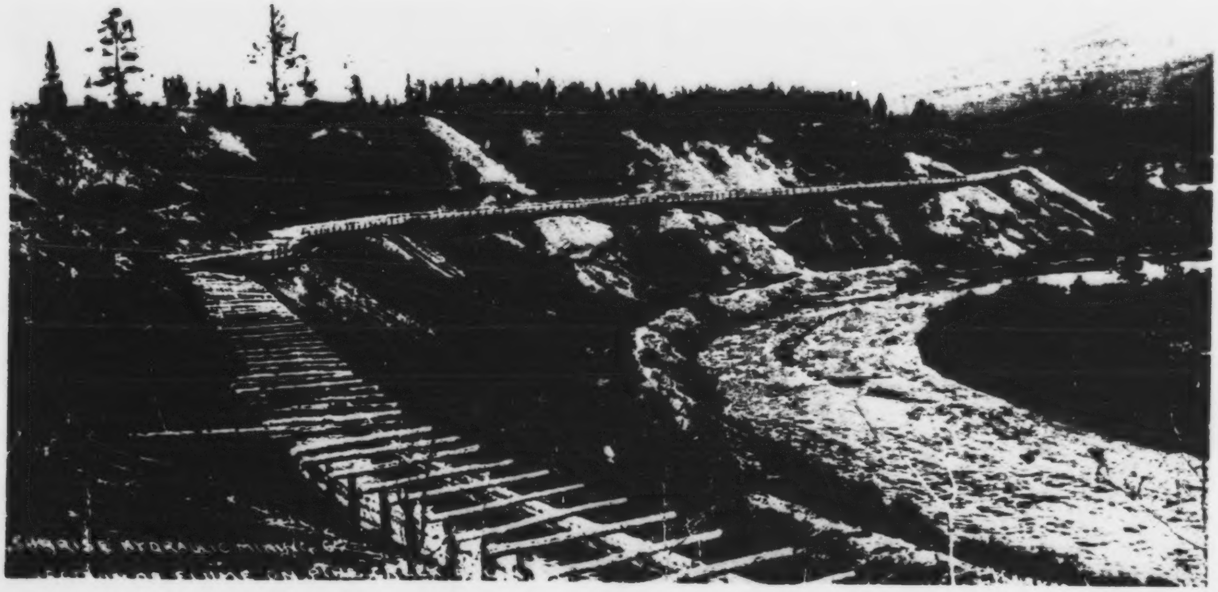
Big Missouri development–Long Lake Dam

FIGURE 5.20



Wood stave pipe for Barriere development

Flume entering tunnel near Hedley–1904



SUNRISE HYDRAULIC MINING CO.

Flume on Pine Creek near Atlin

METHODS OF CONVEYING WATER

FIGURE 5.21

6. FEASIBILITY STUDIES LISTINGS

The feasibility studies listed in this section represent a significant body of work which could prove useful to individuals wishing to design a project of similar physical or hydrological characteristics. These studies are based on a questionnaire sent to 35 consultants and manufacturers believed to be active in British Columbia. The 10 responses obtained plus other data research indicate that there are still projects which have been studied but are not shown. However, the consultants shown in Table 6.1 represent a good cross section of expertise in a variety of project sizes and locations. Additional information is provided in Section 2.5 and the database.

FEASIBILITY STUDIES

Ref.#	Plant Name	Owner	Stream Name	Lat/Long	Capacity(KW)	QTY(Storage/Flow)	Description	Date	Head	Penstock Length	Penstock Dia.	Turbine Type	Hydrology	Cost(1000's)	Status	Info.Source
D1	FRANKLIN R	MACMILLAN BLOEDEL	COLEMAN CR	4859/12445	325	.200	N	1981	232	2100	400	P	2		S	C2
D2	MEZIADIN L	B C BLDG CORP	SURPRISE CR	5605/12920	225		N	1982					2		S	C2
D3	KNIGHT INLET	B MCLEAN	GOSSE CR	5040/12540	30	.054	N	1980	80	260	200	P	2	35	0	C2
D4	CIRQUE L				2000		N	1981							S	C2
D5	KICKING HORSE R	PARKS CANADA	KICKING HORSE R	5125/11630	425	.286	N	1982	212	3600	508	P	3	1650	S	C2
D6	CHESLATTA R	ALCAN	CHESLATTA R	5345/12500	150	1.400	N	1980	15	230	910	C	3	691	S	C2
D7	NANIKA R	ALCAN	NANIKA R	5355/12725	180	.970	N	1980	26	160	864	C	3	657	S	C2
D8	TASU	WESFROB MINES		5250/13200	2000		N	1981		1300				3500	S	C2
D9	HOT SPRINGS COVE	HESQUIAT BAND		4930/12630	500		N	1985					2		S	C2
D10	HASTY CR	C MURPHY	HASTY CR	4955/11725	40		N	1982					2		0	C2
D11	SUNSHINE CR		SUNSHINE CR	4910/12250	50	.120	N	1982	60		250		2		S	C2
D12	STONY CR		STONY CR	5035/12240		.030	N	1983					2		S	C2
D13	LENA L	PACIFIC AQUA FOODS	LENA CR		40	.200	N	1985	24	660	300	C	2	130	U	C4
D14	VANCOUVER BAY				50	.140	N	1986	42					100	U	C4
D15	BUTE INLET				160	.250	N	1986	75	450			3	390	U	C4
D16	CASCADE L	WEST KOOTENAY POWER & LIG			14000		N	1983		750		P			S	C4
D17	FINLAY CR	WEST KOOTENAY POWER & LIG			21000		N	1983		540		F			S	C4
D18	PORT ALICE	PACIFIC AQUA FOODS			125	.062	N	1986	240	480		P		165	S	C4
D19	KINGCOME INLET	TSAWATAINEUK BAND	VOGEL CR	5057/12612	75	.100	N	1979	110	450	200	P	1	321	0	C6
D20	THORSEN CR	B C HYDRO	THORSEN CR	5220/12640	2500	4.000	N	1982	75	1500	1200	F	2	6700	S	C6
D21	MOSES INLET	LANCASTER RESOURCES	EBERTS CR	5150/12751	75	.120	N	1984	95	750	300	T	2	300	0	C6
D22	CLAYTON FALLS	B C HYDRO	CLAYTON FALLS CR	5222/12651	700/3200		N	1982	70	580	1200	F	3	6300	SO	C6
D23	KLEMTU	KITASOO BAND	BARON L	5237/12832	600	.350	N	1978	260	685	350	P	3	745	0	C6
D24	KYUQUOT-1	INDIAN AFFAIRS	MCKAY CR	5003/12722	100	276000/.140	N	1985	102	340	450	T	2	800	S	C7
D25	KYUQUOT-2	INDIAN AFFAIRS	MCKAY CR	5003/12722	200	1100000/.220	N	1985	130	340	560	T	2	1100	S	C7
D26	KYUQUOT-3	INDIAN AFFAIRS	MCKAY CR	5003/12722	300	1700000/.380	N	1985	110	340	710	T	2	1500	S	C7
D27	OWIKEENO	OWIKEENO BAND	NICKNAQUEET R	5140/12715	350	142000/.320	N	1981	150	1700	560	P	2	1300	S	C7
D28	NITINAT I R 11	INDIAN AFFAIRS	HAZARD CR	4850/12440	225	230000/.030	N	1982	999	1030	300	P	2	740	S	C7
D29	GOLDSTREAM	NORANDA MINES	GOLDSTREAM R	5147/11822	5000	8500000/13.000	N	1979	56	2750	2130	F	3	9000	S	C7
D30	BUGABOO CR	CDN MTN HOLIDAYS	BUGABOO CR	5045/11645	315	688000/.060	N	1981	750	2900	200	P	2	740	S	C7
D31	VOWELL CR	CDN MTN HOLIDAYS	VOWELL CR	5055/11655	315	.450	N	1981	100	1500	810	F	2	770	S	C7
D32	CITY OF REVELSTOKE	CITY OF REVELSTOKE	ILLECILLAWAET R	5048/11804	8000	3.850	N	1959	296	990	1220	T	2	1300	S	C7
D33	ATLIN	W R MAJOR	SURPRISE L		300	1.500	N	1985	28	1000	1200	C	2	1200	S	C8
D34	ESPERANZA	NOOTKA MISSION	COVER & LUTES CR	4952/12648	100	.500	N	1982	28	800	400	P	3	200	S	C8
D35	DANIELS	E DANIELS	FRANK/ERNS/BASS CR		75	.200	N	1985	53	120	500	C	1	75	S	C8
D36	AGASSIZ	GOUWENBURG	CAMP CR		40	.050	N	1985	63	500	200	F	1	30	U	C8
D37	BAMFIELD	B C HYDRO	SARITA R	4853/12500	1000	2.900	N	1984	43	900	600	F	3	6500	S	C9
D38	BELLA BELLA	B C HYDRO	WALKER L	5216/12753	1100	1.500	N	1984	75	600	900	F	21	1100	S	C9
D38			A B C D LAKES	5207/12754	500	1.200	N	1984	54	400	900	F	2	5300	S	C9

TABLE 6.1

LIST OF CONSULTANTS WITH FEASIBILITY AND PREFEASIBILITY STUDY EXPERIENCE

NO.	CONSULTANT
C1	ACRES
C2	Crippen Consultants
C3	P Fawkes
C4	Colin Holt
C5	Northwest Hydraulics
C6	Sigma Engineering Ltd
C7	Westcrow Engineering
C8	Micro Power Engineering
C9	BC Hydro
C10	SAR Engineering
M1	P Koch

7. PREFEASIBILITY STUDY LISTINGS

The prefeasibility study information was obtained in a similar manner as the information in Section 6. The difference in prefeasibility studies is that the degree of investigation is less, leaving both design and costing at a lower level of accuracy. Prefeasibility studies can still give reasonably accurate estimates of site potential. Further information is provided in Section 2.6 and the database.

There are four prefeasibility studies which are regional overviews of a specific small hydro resource, and summary tables are accessed through the computer package. These studies are as follows:

E 9 - Power Resource Study (Acres 1981)
E 22 - Micro Hydro (Crippen 1980)
E 37 - Technology and Resource Assessment (Sigma 1982)
E 50 - Undeveloped Power Sites in British Columbia (Anthony Water Resources Branch 1963)

In addition, condensed reports of References E37 and E50 are provided in Tables 7.1.5 and 7.1.7 respectively.

PREFEASIBILITY STUDIES

Ref.#	Plant Name	Owner	Stream Name	Lat/Long	Capacity(KW)	QTY(Storage/Flow)	Description	Date	Head	Penstock Length	Penstock Dia.	Turbine Type	Hydrology	Cost(1000's)	Status	Info.Source
E1	OCEAN FALLS	OCEAN FALLS CORPORATION	LAKE 1	5234/12739	4000	4400000/.500	N	1984		3100	600	P	1	11100	S	C1
E2	OCEAN FALLS	OCEAN FALLS CORPORATION	LAKE 2	5225/12732	4200	5800000/.650	N	1984		3800	700	P	1	13300	S	C1
E3	OCEAN FALLS	OCEAN FALLS CORPORATION	LAKE 3	5227/12722	9100	21800000/2.430	N	1984		3500	1100	P	1	22200	S	C1
E4	OCEAN FALLS	OCEAN FALLS CORPORATION	LAKE 4	5229/12728	9000	14500000/1.700	N	1984		1600	900	P	1	13900	S	C1
E5	OCEAN FALLS	OCEAN FALLS CORPORATION	LINK LAKE	5220/12741	17500	45000000/51.000	N	1980		230	3000	A	3	55000	S	C1
E6	SHUSWAP FALLS REDEVELOPMENT	B C HYDRO	SUGAR LAKE	5018/11849	13000	58000000/50.000	N	1982		250	4000	F	3	23000	S	C1
E7	HARTLEY BAY	HARTLEY BAY INDIAN BAND	VARIOUS		200		N	1978							S	C1
E8	HARTLEY BAY	HARTLEY BAY INDIAN BAND	VARIOUS		600		N	1982							S	C1
E9	WEST KOOTENAY POWER STUDY	WEST KOOTENAY POWER & LIG	VARIOUS		20MW		N	1981							S	C1
E10	SURPRISE LAKE	PLACER DEVELOPMENT	PINE CR	5940/13330	7500	77000000/3.500	N	1980		1800	2000	F	3		S	C2
E11	KINGCOME INLET(ANALYSIS)	INDIAN AFFAIRS	VOGEL CR	5100/12615	75	.072	N	1981	180	600	200	C	2	900	0	C2
E12	COTTONWOOD R	CASSIAR RESOURCES	COTTONWOOD R	5905/13010	12000	59000000/4.500	N	1980		2000	2000		3	50600	S	C2
E13	THELWOOD CR	WESTMIN RESOURCES	THELWOOD CR	4935/12540	8500		N	1984		4190	1200	P	2	21000	0	C2
E14	PHILLIPS	MCDONALD RANCH	PHILLIPS CR	4901/11502	440	.470	N	1980	135	600	600	P	2	1031	0	C2
E15	CAROLIN	CAROLIN MINES	COQUIHALLA R	4926/12117	2000	4.760	N	1980	60	120	1420	F	2	4330	S	C2
E16	NAKA CR	WESTERN FOREST	NAKA CR	5028/12625	77	.550	N	1980	20	35	200	C	2	892	S	C2
E17	ALBERT CR	CPR	ALBERT CR	5108/11751	66	.280	N	1980	34	760	460	T	2	536	S	C2
E18	MUNRO CR		MUNRO CR	4920/12240	280	320000/.050	N	1980	800	1680	190	P	2	924	S	C2
E19	ESPERANZA	NOOTKA MISSION	LUTES CR	4954/12656	167	.160	N	1980	150	1000	345	P	1	1412	S	C2
E20	HOLBERG	WESTERN FOREST	PEGATTEM CR	5038/12759	525	.910	N	1980	82	200	830	F	1	1017	S	C2
E21	SANDON	DICKENSON MINES	CARPENTER/CODY CR	4958/11713	1463	1.380	N	1980	152	2550	750	P	2	1900	0	C2
E22	MICRO HYDRO	ENERGY MINES RESOURCES	VARIOUS		<20MW		N	1980							S	C2
E23	CEDAR CR (STRATHCONA)	J. BOULDING	CEDAR(BAIKIE) CR		150	250000/.180	N	1983		650	305	P	2	300	S	C3
E24	TOAD RIVER		TOAD RIVER	5848/12540	150	1.400	N	1984	12	500		A	1	330	H	C4
E25	ATLIN				1000	430000/2.000	N	1983		360	1200	T	1	1500	H	C4
E26	DOUGLAS I R	INDIAN AFFAIRS			30	.030	N	1983		450	200	P	2	160	0	C4
E27	FIELD(KICKING HORSE)	ENERGY EXPLORATIONS			600	.140	N	1983		690	350	P	1		H	C4
E28	BOTANIE CR		BOTANIE CR		10	.120	N	1985	10	570	350	A	3	19	H	C4
E29	QUADRA ISLAND				1	.015	N	1985	10	90	125	P	3	1	0	C4
E30	CHRISTIAN VALLEY	S BOSOVICH	HELLROARER CR	4935/11855	200	.060	N	1982	475	1600	200	P	2	675	S	C5
E31	BELLA COOLA-ANAHIM LAKE	B C HYDRO	CACOOHTIN CR	5225/12620	2000	1.100	N	1981	210	1400	750	P	1	7000	S	C6
E31	"	"	THORSEN CR	5220/12640	2000	3.000	N	1981	751	350	1200	F	1	6700	S	C6
E31	"	"	YOUNG CR	5225/12550	4000	.900	N	1981	515	3600	600	F	1		N	C6
E31	"	"	NOOMST CR	5225/12615	2000	2.100	N	1981	110	2000	1050	F	1	9300	S	C6
E31	"	"	SNOOILI CR	5220/12635	2000	1.000	N	1981	250	2550	750	P	1	9400	S	C6
E31	"	"	NOOSGULCH CR	5225/12625	3750	2.800	N	1981	155	5500	1200	F	1		N	C6
E31	"	"	BURNT BRIDGE CR	5225/12615	2000	3.100	N	1981	752	600	1200	F	1		N	C6
E31	"	"	NOOKLIKONNIK CR	5225/12633	2000	1.100	N	1981	210	1400	750	F	1		N	C6
E31	"	"	ATNARKO R	5210/12540	1500	4.300	N	1981	40	300	1350	F	1		N	C6

PREFEASIBILITY STUDIES

Ref.#	Plant Name	Owner	Stream Name	Lat/Long	Capacity(KW)	QTY(Storage/Flow)	Description	Date	Head	Penstock Length	Penstock Dia.	Turbine Type	Hydrology	Cost(1000's)	Status	Info.Source
E31	"	"	HOTNARKO R	5225/12545	1500	4.300	N	1981	40	600	1350	F	1		N	C6
E32	KINGCOME INLET I R	INDIAN AFFAIRS	VOGEL CR	5057/12612	60	.060	N	1978	180	650	150	P	1	256	O	C6
E33	KATIT I R	INDIAN AFFAIRS	NICKNAQUEET	5140/12714	60	.100	N	1978	100	1100	200	P	1	296	N	C6
E33	"	"	NICKNAQUEET	5140/12714	60	.200	N	1978	50	500	200	F	1	260	N	C6
E33	"	"	UNNAMED	5140/12714	60	.100	N	1978	100	250	300	P	1	188	N	C6
E34	KUTCHO CR	SUMITOMO MINING	TURNAGAIN R	5840/12808	10000	259000/27.400	N	1982	45	730	2500		1	53700	N	C6
E34	"	"	TURNAGAIN R	5829/12848	6800	57800000/14.000	N	1982	60	380	4000		1	52100	N	C6
E34	"	"	TURNAGAIN R	5830/12846	5200	13800000/15.000	N	1982	45	270	1800		1	46500	N	C6
E35	KLEMTU	INDIAN AFFAIRS	BARON L	5237/12832	600	.350	N	1978	260	700	350	P	2	730	O	C6
E36	SEYMOUR ARM	RATEPAYERS ASSOC	CELISTA CR	5115/11900	650	1.000	N	1983	88	685	750	F	3	2000	S	C6
* **E37**	**TECH & RESOURCE ASSESSMENT**	**B C MIN OF ENERGY**	**VARIOUS**	**VARIOUS**	**.1-20MW**	**SEE LISTING**	**N**	**1982**								C6
E38	ROGERS PASS	CPR	ILLECILLEWAET R	5108/11751	6000	10.000	N	1983	85	1000	2300		3			C7
E39	DOLLY VARDEN	DOLLY VARDEN MINES	KITSAULT R	5540/12930	1000	10000000/.660	N	1980	215	1600	600	P	2			C7
E40	KLEMTU	J H TODD	BARON L	5230/12830	400	1100000/.220	N	1963	260	610	300	P	2	92		C7
E41	COTTONWOOD	CASSIAR ASBESTOS	COTTONWOOD R	59/130	12000	11000000/11.200	N	1977	153	2400	2590	F	3	14000		C7
E43	ISKUT R	SKYLINE EXPLORATIONS			20		N	1986				C			U	M1
E44	HOTHAM SOUND	PACIFIC AQUA FOODS			80	.200	N	1986	70			C			U	M1
E45	KITKATLA	KITKATLA BAND	BILLY CR	5351/13025	400		N	1984	60				1	1650	N	10
E46	KITKATLA	KITKATLA BAND	KILPATRICK L	5348/13011	200		N	1984	15				1	1200	N	10
E47	HISTORICAL REFERENCES		SEE SECTION 12 IN TEXT													
E48	WATER POWERS 1954		VARIOUS	ALL B C	ALL	SEE TEXT SAMPL		1954					1		S	
E49	ENVIRONMENT CANADA		VARIOUS	ALL B C	ALL	SEE TEXT SAMPL		1965					1		S	
* **E50**	**UNDEVELOPED POWER IN B C**		**VARIOUS**	**ALL B C**	**ALL**	**SEE LISTING**		**1963**								

*** Summaries of these studies are provided in the pages following as Table 7.1.5 (E37) and Table 7.1.7 (E50).**

TABLE 7.1.1 WATER POWERS OF BRITISH COLUMBIA, 1919

Sample List of Power Plants in B.C.

Municipality or company and situation of plant	Prime Movers				Generators						
	Water,-W; steam,-S; gas,-G; oil,-O			Total horse-power installed	Alternating current,-A.C.; direct current,-D.C.; exciters,-E				Total kilo-watt capacity of plant	High tension trans-mission voltage	Remarks
	Kind	No. of units	H.p. of each		Kind	No. of units	K.w. of each	Voltage			
Adams River Lumber Co., Ltd.; Chase.					A.C.	1	120	1,100			Robb Armstrong engine belted to General El Co. Alternator.
	S	2	80		A.C.	1	60	1,100			Houston, Stanwood and Camble engine belt to United Elec. Co. Alternator.
					E.	1	1½	110			General Elec. Co. exciter belted to engine.
	S	1	5	165	E.	1	3	110	180	1,100	Exciter direct connected to 5 h.p. engine. Fuel,—shavings. Two complete units, but on one used at a time. Operates 18 hours per d in winter, 10 hours in summer.
Port Alberni city: Vancouver Island.	O	1	150	150	A.C.	1	100†	2,200	100†	2,200	Aktiebolaget Diesels Motorer (Stockholm, Sw den), 3 cylinder. Operates 18 hrs. per day in winter, 10 in summer. Plant also supplies city of Alberni.
Anglesey Estates: Walhachin.	O	1	15	15	D.C.	1	10	110			Service voltage, 110. Plant out of commissio probably will not be used again in the ne future.
Armstrong City: Development on Fortunes creek, 3m. east of city.	W	1	150		A.C.	1	100	2,300			Pelton, direct coupled to generator, 550 ft. head.
	O	1	200	350	A.C.	1	120	2,300	220	2,200	Diesel engine set; auxiliary for low water periods.
Ashcroft Water, Electric and Improvement Co.: Development on Bonaparte river, 4m. from Ashcroft.	W	1	150		A.C.	1	75	2,200	75	2,200	One turbine belted to alternator; also 750 h. for irrigation pumping; 45 ft. head. D washed out in 1913, not yet (1918) replaced.
	W	1	750	900							
Oil Engine Auxiliary plant at Ashcroft	O	1	50		A.C.			2,300			Light and power for pumping domestic supp now obtained from oil engines.
	O	2	20	90							
Britannia Mining and Smelting Co.: Britannia Beach, Howe sound: Development of Britannia creek*	W[1]	1	330		A.C.	1	200	6,600			Pelton-Doble, 900 r.p.m., direct connected to alternator, 3 phase, 60 cycle.
					E.	1	6¼	125			Exciter belted to above.
	W[1]	1	130		A.C.	1	100	6,600			Pelton-Doble, 900 r.p.m., direct connected alternator, 3 phase, 60 cycle.
					E.	1	6¼	125			Exciter belted to above.
	W[1]	1	125								Pelton-Doble, 330 r.p.m., belted to Rand compressor, 120 r.p.m., capacity 700 cu. ft. per min.
Tunnel Power House, 3m. from beach,—Elevation 2,083 ft.	W[1]	1	200								Heary wheel, 480 r.p.m., belted to Rand co pressor, 180 r.p.m., capacity 1,100 cu. ft. p min.
	W[2]	1	1,400		D.C.	1	300	600			Pelton, 900 r.p.m., direct connected to moto generator set. Motor, 550 k.v.a., 6,600 volts, 3-phase, 60-cycle.
					E.	1	15	125			Exciter in connection with above.
	W[2]	1	550	2,735					600	6,600	Pelton, 160 r.p.m., direct connected to Ra Rogler compressor, capacity 3,600 cu. ft. p min.
Beach Power House,—Elevation 165 ft.	W[3]	2	330		A.C.	2	200	6,600			Peltons, 600 r.p.m., direct connected to Westinghouse generators, 3 phase, 60 cycle.
					E.	2	17	250			Exciters belted to above.
	W[3]	1	330		A.C.	1	200	6,600			Pelton, 900 r.p.m., direct connected to Alli Chalmers generator, 3 phase, 60 cycle.
					E.	1	6¼	125			Exciter belted to above.
	W[4]	1	220		D.C.	1	150	250			Pelton-Doble, direct connected to Crocke Wheeler generator.
	W[5]	2	3,750		A.C.	2	2,000	6,600			Peltons, 720 r.p.m., direct connected to Westinghouse generators, 3 phase, 60 cycle.
				8,710	E.	2	18	125	4,750	6,000	Exciters direct connected to above.
Beach Compressor House,—Elevation 5 ft.	W[5]	1	400	400							Pelton, 150 r.p.m., rope drive to Rand compre 80 r.p.m., capacity 2,500 cu. ft. per min.
Old Concentrating Mill,—Elevation 50 ft.	W[4]	3	100	300							Three Pelton wheels driving concentrators.
New Concentrating Mill,—Elevation 50 ft.	W[6]	2	250	500							Two Pelton wheels, 360 r.p.m., driving oil flotation machines.
Steam Auxiliary,—Elevation 20 ft. Situated 100 feet from foreshore.	S	1	650		A.C.	1	500	6,600			Turbine driving alternator, 3 phase, 60 cyc 3,600 r.p.m.
	S	1	3,300	3,950	A.C.	1	2,000	6,600	2,500	6,000	Turbine driving alternator, 3 phase, 60 cyc 3,600 r.p.m.
British Columbia Copper Corporation: Steam plant at Princeton	S	1	650	650	A.C.	1	500†	460	500†	38,000	Transmission line 13m. long to Copper mountain, installed 1911.
British Columbia Electric Railway Co.: * (Vancouver Power Co.).											
Buntzen-Coquitlam Development, Burrard Inlet. Power House No. 1.	W	4	3,000		A.C.	4	1,500	2,200			Development complete. H.t. transmission vol age may be increased to 60,000. Head, 400 f Exciters are each driven by water wheel and have also induction motor.
	W	3	10,500	43,500	A.C.	3	5,000	2,200	21,000	34,600	
	W	4			E.	4					
Buntzen-Coquitlam Development, Burrard Inlet, Power House No. 2.	W	3	13,500	40,500	A.C.	3	8,900	2,200	26,700	34,600	Development complete. Exciters are driven b Pelton wheels and induction motors.
	W	3			E.	3	300				
Steam Auxiliary plant, Main st., Vancouver.	S	4			A.C.	4	2,000	2,300			Allis-Chalmers turbines driving alternators, phase, 60 cycle.
	S	1		18,000	A.C.	1	4,500	2,300	12,500		
British Columbia Electric Railway Co.: * (Vancouver Island Power Co.).											
Development at Esquimalt Water Works, Goldstream,—12m. from Victoria.	W	2	600		A.C.	2	350	700			Operation started Sept., 1898; third unit added 1903; fourth 1905. Two circuit single pole li to Bay Rock sub-station. Head, 650 ft. Sto age in Esquimalt water works reservoi Development complete.
	W	1	1,000		A.C.	1	500	700			
	W	2	1,000	4,200	A.C.	1	1,000	700	2,200	17,500	
Development at Jordan River,—40m. from Victoria.	W	2	6,000		A.C.	2	4,000	2,200			Pelton-Doble wheels regulated by Lombard oi pressure governors. Cedar pole transmission line, 37m. long, to Rock Bay sub-station. Two lines, aluminium, are installed. Head, 1,145 Storage in extensive system of artificial res voirs. Development to ultimate capacity 38,000 h.p. will be completed by addition of o 13,000 h.p. unit.
	W	1	13,000	25,000	A.C.	1	8,000	2,200	16,000	60,000	
	W	2	150		E.[7]	2	100	125			
	W	1	200		E.[8]	1	200	125			
Steam Auxiliary Plant, Brentwood bay,—12m. from Victoria.	S	2	Turbines		A.C.	2	2,000	2,300	4,000		Steam auxiliary to Goldstream and Jordan river plants. Used at present only for emergencies. Plant designed for ultimate installation of fo 5,000 k.w. units—20,000 k.w. in all. (For d tailed description, see *Canadian Electrical New* June 15, 1914.)
					D.C.[9]	2	500	600			
	S	1	Exciter		E.	1	75	125			
					E.[10]	1	75	125			

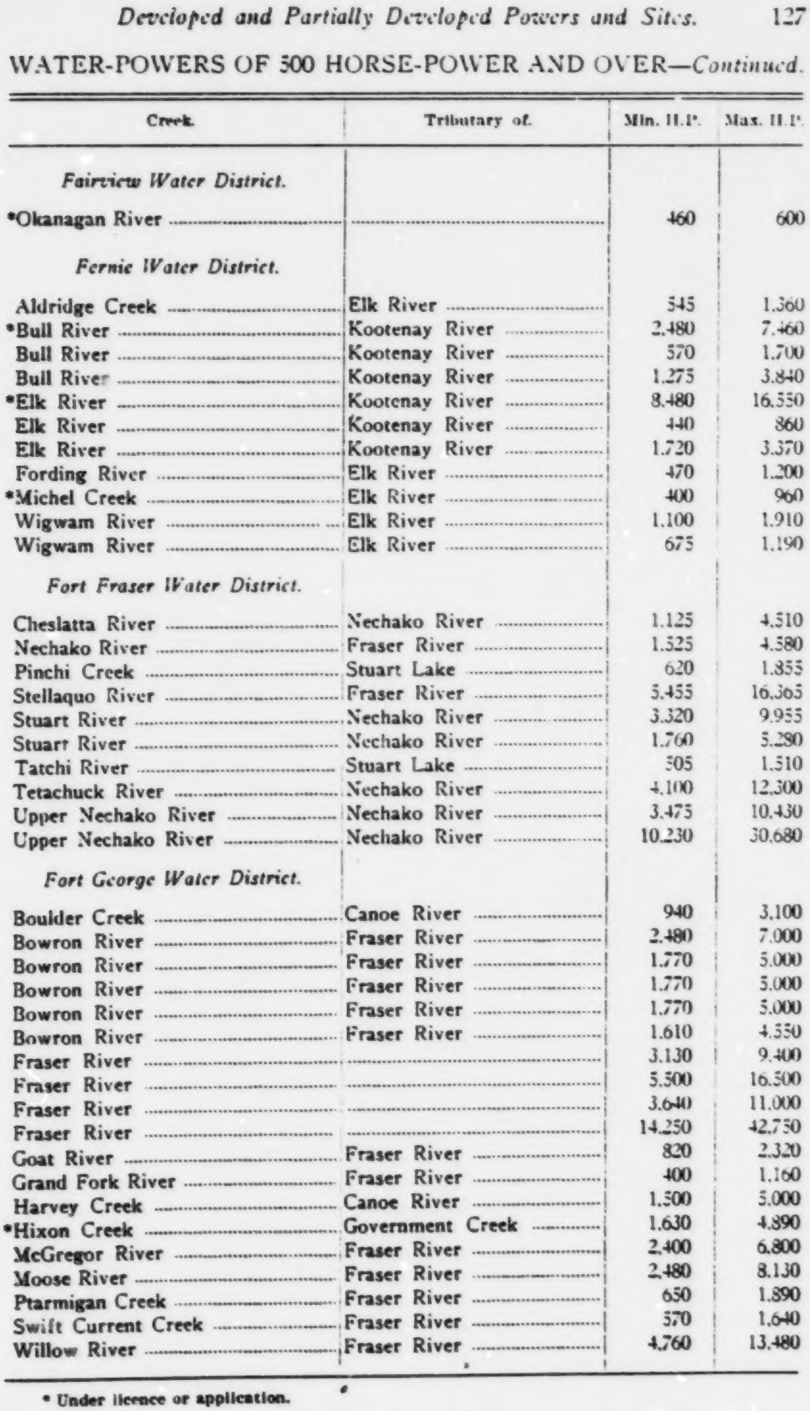
---

[1] Head 838 ft. [2] Head 1,464 ft. [3] Head 1,780 ft. [4] Head 635 ft. [5] Head 1,945 ft. [6] Head 695 ft. [7] These two exciters also coupled to two 150 h.p. inductio motors. [8] This exciter is also coupled to a 300 h.p. induction motor. [9] Direct connected to and driven by one 1,500 h.p. synchronous motor. [10] Auxiliary exciter driven by 1 h.p. induction motor.

* For fuller description, consult chapter dealing with Power Developments in British Columbia. † k.v.a.

TABLE 7.1.2 WATER POWERS OF BRITISH COLUMBIA, 1930

Sample List of Developed and Partially Developed Sites



Developed and Partially Developed Powers and Sites. 127

WATER-POWERS OF 500 HORSE-POWER AND OVER—*Continued.*

Creek.	Tributary of.	Min. H.P.	Max. H.P.
Fairview Water District.			
*Okanagan River		460	600
Fernie Water District.			
Aldridge Creek	Elk River	545	1.360
*Bull River	Kootenay River	2.480	7.460
Bull River	Kootenay River	570	1.700
Bull River	Kootenay River	1.275	3.840
*Elk River	Kootenay River	8.480	16.550
Elk River	Kootenay River	440	860
Elk River	Kootenay River	1.720	3.370
Fording River	Elk River	470	1.200
*Michel Creek	Elk River	400	960
Wigwam River	Elk River	1.100	1.910
Wigwam River	Elk River	675	1.190
Fort Fraser Water District.			
Cheslatta River	Nechako River	1.125	4.510
Nechako River	Fraser River	1.525	4.580
Pinchi Creek	Stuart Lake	620	1.855
Stellaquo River	Fraser River	5.455	16.365
Stuart River	Nechako River	3.320	9.955
Stuart River	Nechako River	1.760	5.280
Tatchi River	Stuart Lake	505	1.510
Tetachuck River	Nechako River	4.100	12.300
Upper Nechako River	Nechako River	3.475	10.430
Upper Nechako River	Nechako River	10.230	30.680
Fort George Water District.			
Boulder Creek	Canoe River	940	3,100
Bowron River	Fraser River	2.480	7.000
Bowron River	Fraser River	1.770	5.000
Bowron River	Fraser River	1.770	5.000
Bowron River	Fraser River	1.770	5.000
Bowron River	Fraser River	1.610	4.550
Fraser River		3.130	9.400
Fraser River		5.500	16.500
Fraser River		3.640	11.000
Fraser River		14.250	42.750
Goat River	Fraser River	820	2.320
Grand Fork River	Fraser River	400	1.160
Harvey Creek	Canoe River	1.500	5.000
*Hixon Creek	Government Creek	1.630	4.890
McGregor River	Fraser River	2,400	6.800
Moose River	Fraser River	2,480	8.130
Ptarmigan Creek	Fraser River	650	1.890
Swift Current Creek	Fraser River	570	1.640
Willow River	Fraser River	4,760	13.480

---

* Under licence or application.

TABLE 7.1.3 WATER POWERS OF BRITISH COLUMBIA, 1954

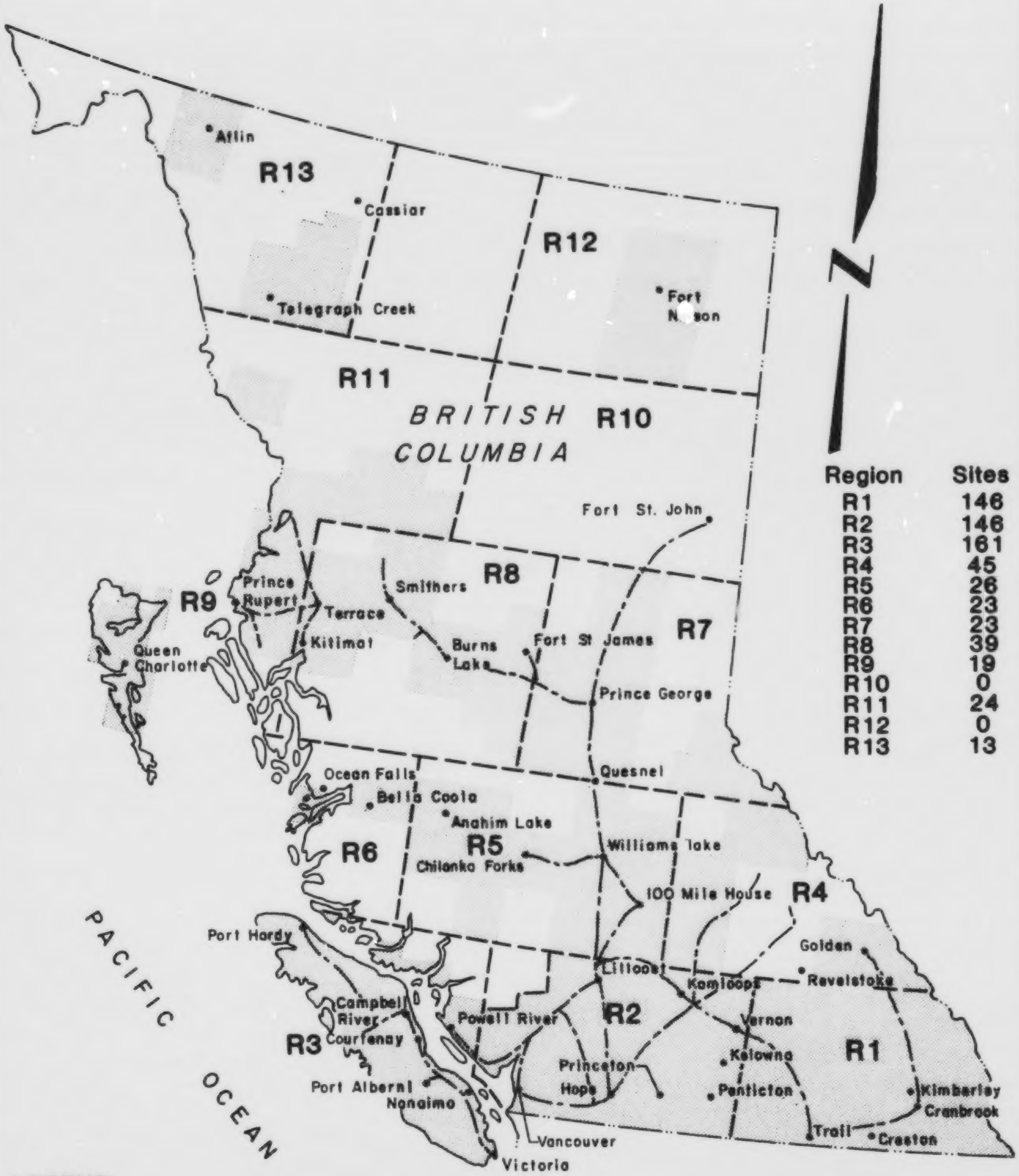
Sample List of Undeveloped Powers of 500 hp and Over

UNDEVELOPED WATER POWERS OF 500 HORSE-POWER AND OVER

Stream	Tributary of—	H.P.R.F.	H.P.U.R.F.		Storage (Ac.-ft.)	Remarks
			Minimum	Maximum		
VANCOUVER ISLAND AREA						
Victoria Water District						
Cowichan River	Cowichan Bay	6,180			153,000	
Gordon River	Strait of Juan de Fuca		820	4,930		
Loss Creek	Strait of Juan de Fuca	7,000			14,000	
McGoogin Creek	Nitinat River		910	5,460	Probable	
†Shawnigan Lake and Koksilah River	Saanich Inlet	2,690			13,800	
Nanaimo Water District						
†Little Qualicum River	Georgia Strait	6,800			54,500	
Marble Creek	Buttle Lake		3,000	9,000		
Millstone River	Nanaimo Harbour	770			4,000	Was developed.
Myra Creek	Buttle Lake		950	2,860		
†Nanaimo River	Nanaimo Harbour	6,180			82,500	
†Nanaimo River	Nanaimo Harbour	2,910			82,500	
†Nanaimo River	Nanaimo Harbour	5,800			82,500	
†Nanaimo River	Nanaimo Harbour	3,090			82,500	
†Nanaimo River	Nanaimo Harbour	4,050			82,500	
*Puntledge River	Courtenay River	10,200			104,000	
†Qualicum River	Georgia Strait	4,800			115,000	
Shepherd Creek	Ralph River		570	1,700		
Thelwood Creek	Buttle Lake		2,730	8,180		
Alberni Water District						
†Ash River	Stamp River	(9,600)			71,600	Alternative.
†Ash River	Stamp River		(4,000)	(8,000)		Alternative.
†Ash River	Stamp River	26,000			51,000	
Beaver Creek	Stamp River		1,270	3,810		Small lake at head.
†Benson River	Alice Lake	2,700			23,400	
*Cass Creek	Uchucklesit Harbour		2,860	14,130		
†Doran Lake	Great Central Lake	3,270			4,600	
Drinkwater Creek	Great Central Lake		1,050	4,770	Probable	
Drinkwater Creek	Great Central Lake		640	2,980	Probable	
†Gold River	Muchalat Arm		5,600	28,000	Probable	
†Great Central Lake	Somass River	22,950			423,000	
*†Marble (Amazon) River	Alice Lake	5,500			180,000	
†Marble River	West Arm, Quatsino Sound	18,000			441,000	
†Marble River	West Arm, Quatsino Sound	7,700			441,000	
†Marble River	West Arm, Quatsino Sound	9,500			267,000	Alternative.
†Nahmint River	Alberni Canal	15,900			107,000	
†Nahmint River	Alberni Canal	(910)			72,000	Alternative.
†Nahmint River	Alberni Canal	(9,020)			72,000	Alternative.
Pitre Creek	Zeballos River		1,440			Estimated.
*†Raging River	Elk Lake	1,350			6,500	435 h.p. developed.
†Sarita River	Barkley Sound	2,650			41,900	
†Somass River	Alberni Canal	3,170			564,000	
†Sproat River	Somass River	10,300			564,000	
*Tranquil Creek	Tofino Inlet		500			Licensed for 500 h.p.
†Ucona River	Gold River		9,000		Probable	Estimated.
*†Victoria Lake	Marble River	14,200			180,000	Alternative.
†View Lake	Great Central Lake	1,960			8,160	
Vancouver Water District						
Cluxewe River	Broughton Strait	800			2,000	Estimated.
Kokish River	Broughton Strait		1,000	10,300	Probable	
Memekay River	Johnstone Strait		980	1,960		
Nimpkish River	Broughton Strait	50,000			1,100,000	

Dagger (†) denotes written reports are available from the Water Rights Branch on these streams.

Asterisk (*) denotes streams which are licensed or partly licensed.


Atlin
R13
Cassiar
R12
Telegraph Creek
Fort N[illegible]son
R11
BRITISH COLUMBIA
R10
Fort St. John
Prince Rupert
R9
Smithers
R8
Terrace
Kitimat
Queen Charlotte
Burns Lake
Fort St James
R7
Prince George
Quesnel
Ocean Falls
Bella Coola
Anahim Lake
R5
R6
Chilanko Forks
Williams lake
100 Mile House
R4
PACIFIC OCEAN
Port Hardy
Golden
Lillooet
Revelstoke
Kamloops
Campbell River
Powell River
R2
Vernon
Courtenay
R3
Kelowna
R1
Princeton
Hope
Penticton
Port Alberni
Nanaimo
Kimberley
Cranbrook
Trail
Creston
Vancouver
Victoria

Region	Sites
R1	146
R2	146
R3	161
R4	45
R5	26
R6	23
R7	23
R8	39
R9	19
R10	0
R11	24
R12	0
R13	13

LEGEND

—·—·—	Existing transmission line (High voltage)
▨	Areas studied for grid tie in
— — —	Boundary of Region (as used in study)

LOCATION MAP FOR REGIONS LISTED IN TECHNOLOGY AND RESOURCE ASSESSMENT (Ref. No. E37)

TABLE 7.1.4

5429
JNG MAR 1986

TABLE 7.1.5

SAMPLE OF RESOURCE OVERVIEW STUDY ("Hydro" Region 1, Page 1)

NAME	LAT/LONG	FLOW	HEAD	PENSTOCK LENGTH	PENSTOCK DIAMETER
ARTHURS CR	4941/11843	0.4	280	2000	0.44
ASHER CR	5036/11729	3.4	150	2100	1.1
ASSINIBOINE CR	5048/11540	0.53	240	1500	0.48
BEATRICE CR	4950/11728	4.1	165	750	0.98
BEATTON CR	5044/11744	2.8	150	2000	1
BEHRMAN CR	5030/11652	0.7	240	850	0.88
BEN ABLE CR	5016/11609	0.63	180	1400	0.53
BERNARD CR	4952/11651	1.7	180	1200	0.75
BLANKET CR FALLS	5050/11805	3.4	N/A	N/A	N/A
BOYD CR	5053/11734	2.2	250	1800	0.84
BRENNER CR	5013/11730	3.5	120	1900	1.2
BRUCE CR	5034/11615	2.4	50	400	0.88
CAMPBELL CR	4957/11651	2.7	240	2400	0.97
CARIBOU CR	4959/11750	6.1	120	1350	1.3
CASCADE CR	5025/11707	1.9	180	1800	0.84

TABLE 7.1.5

INVENTORY OF SMALL HYDRO SITES

STREAM NAME	LAT/LONG	REGION	FLOW	HEAD	PENSTOCK		POWER	COST	TRANS.	CAPACITY	CRITICAL	$/KWH	FIRM
SORTED:Alphabetic by region			(m3/s)	(m)	L(m)	D(m)	(kW)	1000$	DIST(km)	FACTOR	ENERGY	(FIRM)	ENERGY
ARTHURS CR	4941/11843	1	0.4	280	2000	0.44	800	3600	50	40%	81.1%	0.108	2.3
ASHER CR	5036/11729	1	3.4	150	2100	1.1	3600	9100	54	53%	81.1%	0.046	13.6
ASSINIBOINE CR	5048/11540	1	0.53	240	1500	0.48	900	5600	47	50%	81.1%	0.120	3.2
BEATRICE CR	4950/11728	1	4.1	165	750	0.98	4900	5800	7	45%	81.1%	0.025	15.7
BEATTON CR	5044/11744	1	2.8	150	2000	1	3000	7300	50	63%	81.1%	0.037	13.4
BEHRMAN CR	5030/11652	1	0.7	240	850	0.88	1230	2500	34	50%	81.1%	0.039	4.4
BEN ABLE CR	5016/11609	1	0.63	180	1400	0.53	830	3200	33	50%	81.1%	0.074	2.9
BERNARD CR	4952/11651	1	1.7	180	1200	0.75	2200	3400	20	45%	81.1%	0.033	7.0
BLANKET CR FALLS	5050/11805	1	3.4	N/A	N/A	N/A	N/A	N/A	21	45%	81.1%	ERR	0.0
BOYD CR	5053/11734	1	2.2	250	1800	0.84	4000	7100	64	53%	81.1%	0.032	15.1
BRENNER CR	5013/11730	1	3.5	120	1900	1.2	3000	7700	26	47%	81.1%	0.052	10.0
BRUCE CR	5034/11615	1	2.4	50	400	0.88	850	3400	12	52%	81.1%	0.074	3.1
CAMPBELL CR	4957/11651	1	2.7	240	2400	0.97	4800	11000	28	45%	81.1%	0.049	15.4
CARIBOU CR	4959/11750	1	6.1	120	1350	1.3	5300	7200	2.5	45%	81.1%	0.029	17.0
CASCADE CR	5025/11707	1	1.9	180	1800	0.84	2500	5500	14.5	57%	81.1%	0.037	10.1
CHAMPION CR	4914/11735	1	0.95	92	500	0.58	630	1600	4	40%	81.1%	0.061	1.8
CHRISTIAN CR	5024/11848	1	0.19	200	900	0.36	290	1400	2	45%	81.1%	0.103	0.9
CLINT CR	5013/11654	1	2.4	243	2000	0.89	4200	6800	1	50%	81.1%	0.031	14.9
CLUTE CR	5001/11653	1	0.81	609	3200	0.55	3500	8700	8	50%	81.1%	0.048	12.4
COCHRANE CR	4940/11844	1	0.53	500	2600	0.47	1900	5000	45	40%	81.1%	0.063	5.4
COOKE CR	5037/11850	1	1.9	200	2100	0.86	2700	6200	0.5	45%	81.1%	0.049	8.6
COOKE CR FALLS	5036/11850	1	1.9	N/A	N/A	N/A	N/A	N/A	1.3	45%	81.1%	ERR	0.0
COOPER CR	5012/11659	1	4.6	183	5100	1.4	6000	29500	1.5	47%	81.1%	0.100	20.0
COPPERCROWN CR	5022/11621	1	0.3	183	1000	0.41	400	1400	24	50%	81.1%	0.067	1.4
CORN CR	4904/11640	1	2.3	60	800	0.96	990	3200	4	55%	81.1%	0.056	3.9
CRAWFORD CR	5045/11759	1	1.1	250	1300	0.61	1900	2900	21	53%	81.1%	0.028	7.2
CREIGHTON CR	5012/11846	1	0.3	200	1800	0.39	380	1900	2	47%	81.1%	0.102	1.3
CULTUS CR	4920/11647	1	3.9	123	1800	1.2	3400	8400	27	55%	81.1%	0.043	13.3
DAVIS CR	5008/11657	1	0.8	122	500	0.52	680	1400	0.5	47%	81.1%	0.042	2.3
DENNIS CR	5002/11722	1	0.71	182	1250	0.55	930	2400	2	45%	81.1%	0.055	3.0
DERRY CR	5046/11833	1	1.3	300	2350	0.71	2800	5400	22	45%	81.1%	0.041	9.0
DIORITE CR	4958/11540	1	1.3	490	4100	0.72	4600	14800	2	40%	81.1%	0.077	13.1
DOG CR	4924/11807	1	1.3	50	400	0.71	480	2000	35	40%	81.1%	0.100	1.4
DRUMMIE CR	5052/11805	1	1.3	150	700	0.63	1300	2000	7	45%	81.1%	0.033	4.2
DUNBAR CR FALLS	5047/11621	1	2.4	N/A	N/A	N/A	N/A	N/A	7	52%	81.1%	ERR	0.0
EAST CR	5042/11653	1	2.9	50	500	0.99	1000	4900	72	52%	81.1%	0.091	3.7
EAST CR #1	5039/11702	1	7	50	500	1.4	2500	4800	42	53%	81.1%	0.035	9.4
EAST CR #2	5039/11701	1	7	100	1150	1.4	5000	7700	45	53%	81.1%	0.028	18.8
FALL CR	5036/11853	1	0.45	500	1000	0.41	1700	2200	1.5	45%	81.1%	0.028	5.4
FALL CR FALLS	5036/11854	1	0.45	N/A	N/A	N/A	N/A	N/A	2.5	45%	81.1%	ERR	0.0
FARNHAM FALLS	5030/11633	1	3.1	N/A	N/A	N/A	N/A	N/A	24	52%	81.1%	ERR	0.0
FENWICK CR	5028/11537	1	2	50	650	0.91	730	3300	40	50%	81.1%	0.087	2.6
FERRY CR	5015/11839	1	1.1	150	3100	0.78	1160	6000	1	51%	81.1%	0.097	4.2
FITZSTUBBS CR	5009/11722	1	11	60	2000	2.1	4900	16600	13	47%	81.1%	0.069	16.4
FORSTER CR FALLS	5039/11626	1	3.2	N/A	N/A	N/A	N/A	N/A	25	52%	81.1%	ERR	0.0
FORSTER FALLS	5040/11630	1	1.4	N/A	N/A	N/A	N/A	N/A	30	52%	81.1%	ERR	0.0
FOSTHALL CR	5022/11757	1	8.8	60	225	1.3	3900	4300	34	47%	81.1%	0.023	13.0
GIEGERICH CR	5043/11707	1	4.6	100	1100	1.2	3300	5900	55	53%	81.1%	0.032	12.4
GILLIS CR	5004/11642	1	1.8	120	1200	0.82	1500	5300	14	50%	81.1%	0.068	5.3
GOATSKIN CR	4943/11839	1	1.2	100	1000	0.71	860	3600	60	50%	81.1%	0.080	3.1
GWILLIM CR	4945/11728	1	2.4	240	1100	0.8	4200	4100	1	45%	81.1%	0.021	13.4

STREAM NAME SORTED:Alphabetic by region	LAT/LONG	REGION	FLOW (m3/s)	HEAD (m)	PENSTOCK L(m)	PENSTOCK D(m)	POWER (kW)	COST 1000$	TRANS. DIST(km)	CAPACITY FACTOR	CRITICAL ENERGY	$/KWH (FIRM)	FIRM ENERGY
HADOW CR	5040/11748	1	1.4	400	950	0.59	4200	4000	41	53%	81.1%	0.017	15.8
HALFWAY HOTSPRINGS	5029/11751	1	13	60	1300	2	5700	12800	22	47%	81.1%	0.046	19.0
HALL CR	5041/11706	1	1.8	100	850	0.8	1200	2700	51	53%	81.1%	0.041	4.5
HELLROARER CR	4935/11845	1	0.71	400	1750	0.5	2000	3800	30	40%	81.1%	0.046	5.7
HIDDEN CR	4914/11710	1	1.5	30	250	0.75	330	1400	5	40%	81.1%	0.102	0.9
HOLSTEIN CR	5018/11835	1	0.29	150	1200	0.41	315	1600	1	45%	81.1%	0.108	1.0
HOPE CR	5028/11711	1	0.76	240	1250	0.53	1300	2500	24	47%	81.1%	0.039	4.3
HORSETHIEF FALLS	5929/11636	1	1.3	N/A	N/A	N/A	N/A	N/A	45	55%	81.1%	ERR	0.0
HUNTERS CR	5041/11847	1	1.3	150	1900	0.77	1400	4500	10	45%	81.1%	0.069	4.5
IRON CR	5043/11836	1	0.22	550	2000	0.36	900	2500	22	47%	81.1%	0.057	3.0
JOHN CR	5016/11701	1	0.62	180	1200	0.51	800	2000	4.5	47%	81.1%	0.051	2.7
KAIN CR	5051/11635	1	0.95	250	1100	0.56	1700	2700	16	52%	81.1%	0.029	6.3
KELLIE CR	5055/11734	1	1.8	250	1150	0.71	3100	4900	65	53%	81.1%	0.029	11.7
KUSHANAX CR	5016/11746	1	15	60	900	2	6300	9000	0	47%	81.1%	0.029	21.0
LADYBIRD CR	4925/11740	1	2	120	600	0.76	1780	2300	2.5	40%	81.1%	0.031	5.1
LAIDLAW CR	5052/11714	1	2.2	150	1400	0.88	2370	5000	73	53%	81.1%	0.038	8.9
LASCA CR	4936/11709	1	1.5	300	2100	0.72	3200	5400	1	45%	81.1%	0.036	10.2
LATEWHOS CR	5027/11843	1	0.65	450	2600	0.51	2100	4300	8	45%	81.1%	0.044	6.7
LEGERWOOD CR	5058/11846	1	0.53	250	1300	0.47	950	1900	1.5	45%	81.1%	0.043	3.0
LEXINGTON CR	5050/11737	1	0.55	450	1700	0.45	1780	3100	58	53%	81.1%	0.032	6.7
LITTLE GLACIER CR	5026/11655	1	1.3	60	600	0.72	550	1900	26	50%	81.1%	0.066	2.0
LOFTUS CR	5056/11849	1	0.75	250	1000	0.51	1350	2000	0.5	45%	81.1%	0.032	4.3
LOKI CR	4950/11651	1	0.87	430	2400	0.57	2600	5400	14	45%	81.1%	0.044	8.3
LOST LEDGE CR	5006/11656	1	0.28	430	1700	0.36	860	1900	0.5	47%	81.1%	0.045	2.9
LUXOR CR	5046/11610	1	0.97	100	1400	0.7	700	3400	3	52%	81.1%	0.090	2.6
MABLE CR	5037/11836	1	0.22	250	800	0.36	420	1800	11	47%	81.1%	0.088	1.4
MCDONALD CR	5034/11625	1	1.8	250	1100	0.71	3100	3500	36	52%	81.1%	0.021	11.5
MCDOUGAL CR	5058/11737	1	3.4	150	850	0.95	3600	6400	80	53%	81.1%	0.032	13.6
MEADOW CR	5018/11703	1	0.62	180	1300	0.52	800	2100	4	47%	81.1%	0.054	2.7
MENHINICK CR	5049/11739	1	0.6	200	900	0.47	860	1900	53	53%	81.1%	0.040	3.2
MIDGE CR	4922/11652	1	5.6	30	1000	1.6	1200	7700	33	55%	81.1%	0.112	4.7
MITCHELL R FALLS	5048/11542	1	1.8	N/A	N/A	N/A	N/A	N/A	45	50%	81.1%	ERR	0.0
MITCHELL R RAPIDS	5047/11541	1	2.6	N/A	N/A	N/A	N/A	N/A	40	50%	81.1%	ERR	0.0
MULVEHILL CR	5051/11807	1	1.9	150	550	0.7	2000	2100	17	45%	81.1%	0.022	6.4
MURPHY CR	4910/11744	1	0.95	60	500	0.63	410	1400	2.5	40%	81.1%	0.082	1.2
NEMO CR	4955/11725	1	2	490	3300	0.81	7100	15500	3	45%	81.1%	0.047	22.7
NEXT CR	4918/11645	1	3.6	120	1100	1.1	3000	4900	25	55%	81.1%	0.029	11.7
OCTOPUS CR	4945/11806	1	0.68	150	650	0.49	730	1700	6	40%	81.1%	0.056	2.1
OUTLET CR	5020/11830	1	0.6	150	1400	0.54	640	2400	3	45%	81.1%	0.080	2.0
PALLISER FALLS #1	5032/11536	1	6.7	N/A	N/A	N/A	N/A	N/A	53	50%	81.1%	ERR	0.0
PALLISER FALLS #2	5032/11528	1	8.6	N/A	N/A	N/A	N/A	N/A	63	50%	81.1%	ERR	0.0
PAYNE CR	5037/11751	1	1.6	100	400	0.67	1100	1800	45	53%	81.1%	0.030	4.1
POOL CR	5047/11738	1	2.5	350	3000	0.91	6200	12300	51	53%	81.1%	0.036	23.4
POPLAR CR	5026/11708	1	4.2	120	2700	1.3	3600	12000	17	47%	81.1%	0.068	12.0
POWDER CR	4953/11651	1	1.4	370	2500	0.7	3600	7300	23	45%	81.1%	0.043	11.5
QUARRIE CR	5016/11459	1	1.2	50	550	0.72	420	1900	12	50%	81.1%	0.087	1.5
RAPID CR	5027/11710	1	1.2	300	2400	0.67	2500	5200	21	47%	81.1%	0.043	8.4
RIOULX CR	5017/11805	1	0.9	200	2000	0.64	1290	4500	30	45%	81.1%	0.074	4.1
SANCA CR	4923/11643	1	2.3	120	1000	0.88	2000	4000	25	55%	81.1%	0.035	7.8
SCHROEDER CR	5002/11653	1	0.64	300	2300	0.53	1400	3400	0.5	47%	81.1%	0.050	4.7
SEPTET CR	5048/11641	1	1.4	150	950	0.69	1500	2810	34	52%	81.1%	0.035	5.5

STREAM NAME SORTED:Alphabetic by region	LAT/LONG	REGION	FLOW (m3/s)	HEAD (m)	PENSTOCK L(m)	PENSTOCK D(m)	POWER (kW)	COST 1000$	TRANS. DIST(km)	CAPACITY FACTOR	CRITICAL ENERGY	$/KWH (FIRM)	FIRM ENERGY
SHANNON CR	5005/11729	1	1.5	180	1700	0.76	1900	3800	2	47%	81.1%	0.041	6.3
SHAW CR	4915/11643	1	1.1	240	1000	0.59	1900	2500	21	55%	81.1%	0.023	7.4
SHUSWAP R BRENDA F	5021/11832	1	39	N/A	N/A	N/A	N/A	N/A	0	45%	81.1%	ERR	0.0
SICAMOUS CR	5048/11858	1	1.6	200	1400	0.74	2300	3300	0	45%	81.1%	0.031	7.4
SKOOKUMCHUCK F #1	4958/11607	1	2.5	N/A	N/A	N/A	N/A	N/A	41	40%	81.1%	ERR	0.0
SKOOKUMCHUCK F #2	4958/11608	1	2.4	N/A	N/A	N/A	N/A	N/A	42	40%	81.1%	ERR	0.0
SLEWISKIN CR	5008/11747	1	3.4	60	1200	1.2	1500	5400	2	45%	81.1%	0.077	4.8
SMYTH CR	5032/11843	1	0.29	600	2000	0.36	1200	2600	15	45%	81.1%	0.046	3.8
SOUTH CRANBERRY CR	5046/11806	1	2.7	200	900	0.83	3800	4100	29	52%	81.1%	0.020	14.0
SOWSAP CR	5026/11846	1	0.42	200	2100	0.49	600	3100	3.5	45%	81.1%	0.110	1.9
SPECTRUM CR FALLS	5029/11827	1	2	N/A	N/A	N/A	N/A	N/A	18	50%	81.1%	ERR	0.0
STEWART CR	4907/11815	1	0.19	250	1050	0.31	340	1700	8	40%	81.1%	0.120	1.0
STOCKDALE CR	5035/11635	1	2.6	50	700	1	950	4500	38	52%	81.1%	0.088	3.5
TAM O'SHANTER CR	4948/11651	1	0.96	490	3000	0.6	3400	7800	10	45%	81.1%	0.049	10.9
TEMPLETON CR	5048/11629	1	1	250	1700	0.62	1800	3900	21	52%	81.1%	0.040	6.7
TENDERFOOT CR	5028/11713	1	1.5	240	2500	0.78	2600	6100	28	47%	81.1%	0.048	8.7
TOWN CR	5046/11745	1	0.49	400	1400	0.44	1450	2600	44	53%	81.1%	0.032	5.5
TSUIUS CR	5037/11840	1	5	150	1650	1.2	5300	8600	7	47%	81.1%	0.033	17.7
UNNAMED CR	5009/11638	1	0.46	240	1000	0.44	820	2300	21	50%	81.1%	0.054	2.9
UNNAMED CR	5006/11646	1	0.18	550	1650	0.31	730	1600	8	50%	81.1%	0.042	2.6
UNNAMED CR	4959/11603	1	0.75	300	1100	0.5	1600	2500	37	40%	81.1%	0.038	4.5
UNNAMED CR	5057/11824	1	1.2	300	1100	0.59	2500	2600	6	45%	81.1%	0.022	8.0
UNNAMED CR	5021/11648	1	0.3	240	900	0.36	530	1330	19	50%	81.1%	0.048	1.9
UNNAMED CR	5021/11651	1	0.32	430	2000	0.41	1000	2400	15	55%	81.1%	0.042	3.9
UNNAMED CR	5055/11807	1	0.85	250	1150	0.54	1500	2300	1	45%	81.1%	0.033	4.8
UNNAMED CR	5059/11645	1	0.72	400	1100	0.47	2000	2600	34	52%	81.1%	0.024	7.4
UNNAMED CR	4959/11600	1	0.16	560	1550	0.31	660	1930	33	40%	81.1%	0.070	1.9
UNNAMED CR	5007/11644	1	0.22	490	1400	0.3	770	1500	13	50%	81.1%	0.037	2.7
UNNAMED CR	5058/11836	1	0.5	300	700	0.4	1100	1400	7	45%	81.1%	0.027	3.5
UNNAMED CR	5020/11651	1	0.28	300	1150	0.36	620	1500	14	50%	81.1%	0.046	2.2
UNNAMED CR FALLS	5058/11836	1	0.55	N/A	N/A	N/A	N/A	N/A	7	45%	81.1%	ERR	0.0
VAN HOUTEN CR	4940/11807	1	0.57	150	700	0.47	600	2000	16	40%	81.1%	0.080	1.7
VICTOR CR	5057/11824	1	0.5	300	550	0.4	1100	1300	6	45%	81.1%	0.025	3.5
VOWELL CR	5053/11652	1	5.9	50	800	1.4	2100	6600	50	52%	81.1%	0.058	7.8
WAP CR FALLS	5054/11829	1	3.3	N/A	N/A	N/A	N/A	N/A	14	45%	81.1%	ERR	0.0
WARREN CR	5058/11642	1	1.4	550	3400	0.69	5500	12700	30	52%	81.1%	0.043	20.3
WEE SANDY CR	5000/11725	1	1.8	180	900	0.72	2300	2900	10	47%	81.1%	0.026	7.7
WHATSHAN L DAM & F	4954/11807	1	7	N/A	N/A	N/A	N/A	N/A	1	40%	81.1%	ERR	0.0
WILSON CR	4935/11652	1	0.58	609	2700	0.47	2500	6000	12	55%	81.1%	0.042	9.8
WILSON CR FALLS	5008/11720	1	9.2	60	550	1.5	3900	5500	11	47%	81.1%	0.029	13.0
WOODBURY CR	4948/11657	1	1.9	300	3900	0.9	4190	13900	6	55%	81.1%	0.058	16.4
WRAGGE CR	5004/11728	1	1.1	244	1800	0.66	1990	3700	2	45%	81.1%	0.040	6.4
YARD CR	5054/11848	1	3.1	150	1550	1	3290	5700	0	45%	81.1%	0.037	10.5
YARD CR FALLS	5053/11848	1	3.1	N/A	N/A	N/A	N/A	N/A	2	45%	81.1%	ERR	0.0
ADAMS R RAPIDS	5056/11939	2	71	N/A	N/A	N/A	N/A	N/A	0	60%	79.5%	ERR	0.0
AIRPLANE CR	4908/12137	2	0.9	300	1400	0.56	2000	2800	7	63%	82.8%	0.021	9.1
ANDERSON CR	4911/12143	2	0.21	850	1500	0.31	1300	2700	5	63%	82.8%	0.031	5.9
ASHLU CR	4955/12320	2	23	120	1400	2.2	20500	20000	5	55%	91.6%	0.015	90.5
BASTION CR	5051/11905	2	0.24	300	1000	0.36	500	1200	17	45%	79.5%	0.052	1.6
BEAR CR	4928/12146	2	1.6	365	2100	0.71	4100	6200	20	60%	82.8%	0.024	17.8
BIG SILVER CR	4942/12151	2	13	100	1600	1.9	9500	15000	0	55%	82.8%	0.027	37.9

STREAM NAME	LAT/LONG	REGION	FLOW	HEAD	PENSTOCK		POWER	COST	TRANS.	CAPACITY	CRITICAL	$/KWH	FIRM
SORTED:Alphabetic by region			(m3/s)	(m)	L(m)	D(m)	(kW)	1000$	DIST(km)	FACTOR	ENERGY	(FIRM)	ENERGY
BIRKENHEAD R #1	5020/12243	2	23	30	200	2	5100	7000	1	63%	82.8%	0.021	23.3
BIRKENHEAD R #2	5027/12241	2	15	61	750	2	6700	9000	2	63%	82.8%	0.020	30.6
BLURTON CR	5041/11902	2	0.48	400	1600	0.44	1400	2400	1	45%	79.5%	0.037	4.4
BOBB CR	5051/12233	2	0.8	300	1400	0.53	1700	4100	22	52%	82.8%	0.044	6.4
BOISE CR	4937/12241	2	4.7	275	2200	1.1	9300	14300	50	55%	91.6%	0.024	41.0
BOX CANYON CR	4935/12324	2	0.76	400	1400	0.5	2100	3000	2	55%	91.6%	0.022	9.3
BREMNER CR	4940/12201	2	3.1	60	200	0.83	1400	2300	7	55%	82.8%	0.028	5.6
BRIDAL CR & FALLS	4910/12142	2	0.16	N/A	N/A	N/A	N/A	N/A	4	63%	82.8%	ERR	0.0
CADWALLADER CR	5046/12248	2	4.8	50	600	1.2	1700	4400	0.5	52%	82.8%	0.047	6.4
CALLAGHAN CR	5004/12306	2	16	60	1400	2.2	7000	15200	2	60%	91.6%	0.031	33.7
CANTELON/YOLA CR	4913/12123	2	3	105	2000	1.1	2200	8000	22	63%	82.8%	0.054	10.1
CAPILANO R DAM	4921/12306	2	N/A	100	N/A	N/A	N/A	N/A	0	55%	91.6%	ERR	0.0
CAYOOSH CR #1	5039/12201	2	20	50	900	2.3	7000	13200	7	53%	82.8%	0.033	26.9
CAYOOSH CR FALLS	5039/12159	2	21	N/A	N/A	N/A	N/A	N/A	4	53%	82.8%	ERR	0.0
CAYOOSH CR #2	5039/12159	2	21	30	800	2.5	4620	12000	4	53%	82.8%	0.046	17.8
CHAPMAN CR FALLS	4932/12338	2	2.4	N/A	N/A	N/A	N/A	N/A	11	55%	91.6%	ERR	0.0
CHASE CR	5049/11941	2	0.99	100	500	0.58	700	1400	0	45%	79.5%	0.044	2.2
CHEEKYE R	4948/12306	2	1.7	120	1200	0.81	1400	3900	7	55%	91.6%	0.043	6.2
CHICKWAT CR	4949/12343	2	3.7	180	1050	0.98	4800	5500	27	55%	91.6%	0.018	21.2
CHIPMUNK CR	4906/12139	2	2	455	3000	0.8	6500	10800	3	63%	82.8%	0.025	29.7
CLOWHOM R	4951/12327	2	3.6	120	1000	1	3100	6600	25	55%	91.6%	0.033	13.7
CLOWHOM R	4950/12329	2	1.7	320	600	0.6	3800	4800	27	55%	91.6%	0.020	16.8
CLOWHOM R	4949/12323	2	7.8	60	400	1.3	3400	5500	19	55%	91.6%	0.025	15.0
COGBURN CR	4933/12145	2	5.9	100	1050	1.3	4200	6500	35	60%	82.8%	0.024	18.3
CONNEL CR	5039/12225	2	0.65	950	3800	0.48	4400	12700	0.5	52%	82.8%	0.052	16.6
CORNING CR	5054/11932	2	0.52	100	700	0.49	370	1300	0	45%	79.5%	0.077	1.2
CULLITON CR	4953/12309	2	2.6	370	3500	0.94	6800	14000	15	55%	91.6%	0.032	30.0
CYPRESS CR	4920/12314	2	1.3	105	825	0.7	1000	1800	0	55%	91.6%	0.028	4.4
DURUISEAU CR	4905/12021	2	0.29	250	1600	0.41	540	2100	24	45%	79.5%	0.085	1.7
EATON CR	4915/12123	2	0.3	850	2150	0.36	1900	4300	16	63%	82.8%	0.034	8.7
ELAHO CR	5007/12326	2	108	30	650	4.2	19400	30000	27	60%	91.6%	0.022	93.4
FISH HATCHERY CR	4936/12238	2	1.1	670	1600	0.53	5200	6600	50	55%	91.6%	0.020	22.9
FOLEY CR	4908/12133	2	0.85	240	2800	0.64	1500	4900	14	60%	82.8%	0.051	6.5
FRIES CR	4945/12309	2	1.6	180	1100	0.72	2000	3200	3	55%	91.6%	0.025	8.8
FURRY CR FALLS	4935/12312	2	2.6	N/A	N/A	N/A	N/A	N/A	6	57%	91.6%	ERR	0.0
FURRY CR	4935/12313	2	3.6	230	1600	1	5800	6200	6	57%	91.6%	0.016	26.5
GOLD CR	4921/12227	2	5.3	50	250	1.1	1900	3100	16	55%	91.6%	0.025	8.4
GREY CR	4932/12345	2	3.6	95	700	1	2490	4000	8	55%	91.6%	0.025	11.0
HICKS CR	4911/12121	2	0.81	120	900	0.58	700	2200	25	63%	82.8%	0.047	3.2
HIGH CR	4955/12352	2	2.2	210	1000	0.77	3300	3710	21	55%	91.6%	0.017	14.6
HIGH FALLS CR	4956/12318	2	2	520	1700	0.71	7500	7700	1	55%	91.6%	0.016	33.1
HILLS CR	5043/11904	2	0.68	250	1250	0.51	1200	2300	3	45%	79.5%	0.042	3.8
HUMMING BIRD CR	5046/11900	2	0.3	250	750	0.36	550	1100	1	45%	79.5%	0.044	1.7
JOFFRE CR	4918/12235	2	3.8	190	900	0.96	5200	4800	10	57%	91.6%	0.014	23.8
KEARY CR	5049/12225	2	0.6	400	2800	0.52	1700	6000	12	52%	82.8%	0.064	6.4
KOOKIPI CR	4959/12138	2	4.6	350	2700	1.1	11600	20000	12	47%	82.8%	0.035	39.5
KWOIEK CR	5007/12135	2	7.4	350	3500	1.4	18600	35000	7	60%	82.8%	0.030	80.9
LAFORGUE CR	4914/12109	2	0.62	300	1200	0.47	1300	2200	27	60%	82.8%	0.027	5.7
LAKE LOVELY WATER	4948/12313	2	0.75	1100	3400	0.48	5900	12400	9	60%	91.6%	0.030	28.4
LAKEVIEW CR	4909/12010	2	0.32	550	2900	0.41	1300	4300	20	45%	79.5%	0.072	4.1
LIZZIE CR	5012/12228	2	3.5	230	2000	1	5700	9400	11	57%	82.8%	0.027	23.6

STREAM NAME SORTED:Alphabetic by region	LAT/LONG	REGION	FLOW (m3/s)	HEAD (m)	PENSTOCK L(m)	PENSTOCK D(m)	POWER (kW)	COST 1000$	TRANS. DIST(km)	CAPACITY FACTOR	CRITICAL ENERGY	$/KWH (FIRM)	FIRM ENERGY
LOST VALLEY CR	5040/12218	2	0.94	350	1050	0.52	2300	2900	6	52%	82.8%	0.023	8.7
LYNN CR	4921/12301	2	4	75	1800	1.3	2100	6400	0	55%	91.6%	0.047	9.3
MAIMEN CR	4917/12124	2	0.39	610	3150	0.44	1700	5400	11	60%	82.8%	0.050	7.4
MAMQUAM CR	4943/12304	2	22	190	825	1.8	28700	14100	6	57%	91.6%	0.007	131.3
MARA CR	5046/11900	2	0.46	250	1000	0.44	850	1600	1	45%	79.5%	0.041	2.7
MASELPANIK CR	4907/12115	2	2.3	300	2500	0.88	5100	9400	37	63%	82.8%	0.028	23.3
MAWBY CR	4953/12318	2	0.65	580	1150	0.44	2700	3600	2	55%	91.6%	0.021	11.9
MCGILLIVARY CR	5037/12226	2	1.2	350	1300	0.59	2900	3800	1	52%	82.8%	0.024	10.9
MCNAIR CR	4931/12330	2	2.1	180	1600	0.86	2800	5200	1	55%	91.6%	0.029	12.4
MCNULTY CR	4925/12005	2	1.3	250	1900	0.69	2200	4100	10	40%	79.5%	0.046	6.1
MISERY CR FALLS	4940/12335	2	4.8	N/A	N/A	N/A	N/A	N/A	6	55%	91.6%	ERR	0.0
MONMOUTH CR	4943/12311	2	0.59	470	1000	0.44	2040	2800	3	55%	91.6%	0.021	9.0
MOWHOKAM CR	5002/12131	2	1.4	100	1000	0.76	1000	3100	3	50%	82.8%	0.058	3.6
NICOAMEN CR	5016/12124	2	1.5	200	600	0.36	2200	2400	10	50%	79.5%	0.021	7.7
NOEL CR	5046/12248	2	3.2	50	400	0.99	1160	3100	2	52%	82.8%	0.048	4.4
OWL CR	5022/12244	2	2.2	150	900	0.81	2400	3900	1	62%	82.8%	0.025	10.8
PAUL CR	4915/12001	2	0.67	120	400	0.47	570	1800	1	40%	79.5%	0.077	1.6
PAVILION CR	5054/12146	2	0.15	350	2350	0.36	400	2200	0	50%	79.5%	0.108	1.4
PERKETTS CR	4953/12352	2	1.9	340	1000	0.68	4500	4200	15	55%	91.6%	0.014	19.9
PLACER CR	4911/12034	2	0.69	250	1900	0.55	1200	3200	25	45%	79.5%	0.058	3.8
POST CR	4905/12128	2	1.1	125	500	0.59	1020	1800	17	60%	82.8%	0.028	4.4
POTLATCH CR	4935/12319	2	0.43	150	1300	0.47	470	2100	1	55%	91.6%	0.069	2.1
RAINY R	4932/12330	2	7	60	800	1.5	3070	6200	3	55%	82.8%	0.035	12.2
RED CR	4931/12023	2	0.28	260	1250	0.41	540	2100	4	40%	79.5%	0.095	1.5
RED TUSK CR	4947/12325	2	2.6	180	1400	0.9	3300	5800	13	55%	91.6%	0.027	14.6
REINECKER CR	5047/11913	2	0.96	100	500	0.58	690	1400	4	45%	79.5%	0.044	2.2
ROARING CR	4927/12213	2	1.4	200	900	0.65	2000	2700	25	55%	91.6%	0.021	8.8
ROGERS CR	4959/12227	2	10	120	1200	1.6	9100	11300	1	57%	82.8%	0.021	37.6
RUBBLE CR	4957/12307	2	2.8	730	3000	0.83	14700	19600	4	60%	91.6%	0.019	70.8
SCUZZZY CR	4949/12128	2	7.9	70	1100	1.6	3900	8500	3	47%	82.8%	0.044	13.3
SECHELT CR	4940/12333	2	6	153	1200	1.3	6600	7200	0.5	55%	91.6%	0.017	29.1
SHAKAN CR	5016/12112	2	0.86	50	200	0.53	300	1300	2	43%	79.5%	0.099	0.9
SHULAPS CR	5056/12217	2	0.58	200	1550	0.52	830	3200	30	52%	82.8%	0.070	3.1
SIGURD CR FALLS	4954/12320	2	1.7	N/A	N/A	N/A	N/A	N/A	6	55%	91.6%	ERR	0.0
SIWASH CR	4934/12124	2	3	200	600	0.81	4200	5700	12	50%	82.8%	0.026	15.2
SOWERBY CR	4919/12126	2	1.4	425	3400	0.71	4100	9800	7	63%	82.8%	0.036	18.7
SPAHOMIN CR @ RAP	5003/12006	2	0.67	N/A	N/A	N/A	N/A	N/A	14	50%	79.5%	ERR	0.0
SPUZZUM CR	4939/12126	2	7.5	50	500	1.4	2600	5100	2	60%	82.8%	0.031	11.3
SQUAMISH R	5010/12324	2	26	60	1400	2.6	11400	22400	30	60%	91.6%	0.028	54.9
STAWAMUS CR	4942/12307	2	2.8	274	2650	0.97	5500	9400	3	55%	91.6%	0.026	24.3
SWANEE CR	4915/12123	2	0.23	460	1900	0.36	770	2100	17	60%	82.8%	0.043	3.4
TANTALUS CR	4951/12315	2	0.9	762	3000	0.45	4900	9200	2	55%	91.6%	0.029	21.6
TAQUAT CR	4945/12325	2	3.1	305	1400	0.88	6700	7100	11	55%	91.6%	0.016	29.6
TEXAS CR	5034/12149	2	2.6	150	900	0.86	2700	3600	18	50%	82.8%	0.025	9.8
TEXAS CR	5031/12150	2	2.3	100	800	0.87	1600	3800	23	50%	82.8%	0.045	5.8
THOMAS LAKE	4936/12225	2	1.1	520	1700	0.57	4100	5500	50	60%	91.6%	0.019	19.7
THORNHILL CR	4940/12336	2	1.2	459	1250	0.57	3970	4220	0	55%	91.6%	0.016	17.5
TIPELLA CR	4945/12210	2	4.9	90	300	0.99	3200	3600	0	55%	82.8%	0.019	12.8
TOMMY CR	5050/12231	2	1.2	300	1800	0.64	2500	4140	20	52%	82.8%	0.030	9.4
TRETHEWAY CR	4942/12205	2	7.5	30	150	1.3	1600	3500	0	55%	82.8%	0.037	6.4
TRUAX CR	5053/12238	2	1	200	700	0.55	1400	2040	18	52%	82.8%	0.026	5.3

STREAM NAME SORTED:Alphabetic by region	LAT/LONG	REGION	FLOW (m3/s)	HEAD (m)	PENSTOCK L(m)	PENSTOCK D(m)	POWER (kW)	COST 1000$	TRANS. DIST(km)	CAPACITY FACTOR	CRITICAL ENERGY	$/KWH (FIRM)	FIRM ENERGY
TSILEUH CR	4946/12126	2	0.87	700	3900	0.57	4300	11500	5	47%	82.8%	0.054	14.7
TWENTYONE MILE CR	5007/12259	2	2.2	185	1000	0.8	2900	3600	1.5	60%	82.8%	0.019	12.6
TWIN ONE CR	5015/12230	2	2.3	430	4100	0.9	6900	19500	1	56%	82.8%	0.048	28.0
TZOONIE CR	4947/12343	2	11	30	320	1.7	2400	5230	23	55%	91.6%	0.034	10.6
UNNAMED CR	4945/12331	2	5.5	122	350	1	4800	3770	6	55%	91.6%	0.012	21.2
UNNAMED CR	4944/12332	2	0.44	397	700	0.41	1300	1730	5	55%	91.6%	0.021	5.7
UNNAMED CR	4955/12348	2	0.88	579	3000	0.56	3650	8070	25	55%	91.6%	0.034	16.1
UNNAMED CR	4912/12120	2	0.26	670	2050	0.36	1300	3400	24	63%	82.8%	0.039	5.9
UNNAMED CR	4915/12115	2	0.93	180	1300	0.61	1200	2900	25	60%	82.8%	0.038	5.2
UNNAMED CR	4918/12004	2	0.08	600	1300	0.2	340	1100	1	40%	79.5%	0.079	0.9
UNNAMED CR	4941/12316	2	0.41	580	1700	0.41	1770	3400	2.5	55%	91.6%	0.030	7.8
UNNAMED CR	4947/12334	2	1.4	457	1200	0.6	4600	5900	17	55%	91.6%	0.020	20.3
UNNAMED CR	4909/12115	2	0.9	245	1500	0.59	1570	3500	30	63%	82.8%	0.033	7.2
UNNAMED CR	4949/12323	2	0.38	793	1150	0.36	2200	3300	17	55%	91.6%	0.023	9.7
UNNAMED CR	4943/12345	2	1	427	1200	0.54	3200	3800	17	55%	82.8%	0.020	12.8
UNNAMED CR	4948/12324	2	0.8	793	2700	0.49	4280	9100	15	55%	91.6%	0.033	18.9
UNNAMED CR	4940/12151	2	0.65	540	2000	0.47	2500	4800	55	60%	82.8%	0.030	10.9
UNNAMED CR	4957/12150	2	2.3	250	1500	0.83	5800	9600	28	47%	82.8%	0.033	19.8
UNNAMED CR	4905/12043	2	0.18	150	825	0.36	200	1250	11	50%	79.5%	0.123	0.7
UNNAMED CR	4909/12120	2	1.2	243	2100	0.69	2000	5000	30	63%	82.8%	0.037	9.1
UNNAMED CR	4946/12326	2	0.62	458	1100	0.45	2090	2700	14	55%	91.6%	0.020	9.2
UNNAMED CR	4945/12327	2	0.88	550	1100	0.48	3500	3700	11	55%	91.6%	0.016	15.4
UNNAMED CR	4950/12131	2	2	300	2200	0.82	4300	7700	9	47%	82.8%	0.036	14.7
UNNAMED CR	4945/12343	2	1.5	214	600	0.62	2340	2500	18	55%	91.6%	0.017	10.3
UNNAMED CR	5001/12321	2	1.8	275	700	0.64	3500	3900	15	55%	91.6%	0.017	15.4
UNNAMED CR	4929/12125	2	0.45	425	2600	0.45	1300	3800	3	60%	82.8%	0.046	5.7
UNNAMED CR	4941/12335	2	0.18	793	1800	0.31	1100	2860	0	57%	91.6%	0.039	5.0
UNNAMED CR FALLS	4950/12314	2	1.1	N/A	N/A	N/A	N/A	N/A	8	55%	91.6%	ERR	0.0
UNNAMED CR	4940/12335	2	0.15	1037	2400	0.25	1140	3300	0	60%	91.6%	0.041	5.5
URE CR	5016/12235	2	6	275	2050	1.2	11800	16500	10	57%	82.8%	0.023	48.8
VANCOUVER CR	4956/12348	2	8.1	60	900	1.6	3500	7800	25	55%	91.6%	0.034	15.4
WEDGE CR	5010/12254	2	3.6	215	1500	1	5500	6500	2	60%	82.8%	0.019	23.9
WHITE CR	5051/11919	2	0.6	50	300	0.5	210	900	0	60%	79.5%	0.070	0.9
WHITECAP CR	5043/12218	2	0.73	200	950	0.52	1050	2220	1	52%	82.8%	0.038	4.0
WILLIS CR	4925/12025	2	0.6	150	1200	0.53	640	2400	9	45%	79.5%	0.082	2.0
WRAY CR	4920/12118	2	0.83	305	2000	0.57	1800	3600	12	60%	82.8%	0.031	7.9
ZENITH CR	4952/12316	2	0.11	1159	2800	0.25	980	3800	15	60%	91.6%	0.055	4.7
ADRIAN CR	4948/12527	3	1.8	50	625	0.87	650	2500	0	65%	82.9%	0.056	3.1
AHAMINGUS CR	4941/12607	3	0.99	40	100	0.52	280	1200	0.5	65%	82.9%	0.062	1.3
ARTLISH R	5008/12655	3	5.9	30	600	1.5	1300	6000	30	65%	82.9%	0.067	6.1
ATLUCK CR	5018/12656	3	8.6	30	700	1.7	1900	7000	16	65%	82.9%	0.053	9.0
BANCROFT	4934/12552	3	2.2	100	560	0.8	1500	4700	26	65%	82.9%	0.045	7.1
BARR CR	4955/12647	3	3.5	30	400	1.1	760	3800	10	65%	82.9%	0.072	3.6
BEDWELL R	4927/12536	3	3.1	50	500	1	1100	3000	32	62%	82.9%	0.041	5.0
BEECH CR	4936/12512	3	1.3	50	125	0.57	460	1100	8.2	65%	82.9%	0.035	2.2
BIG TREE	5015/12545	3	1.7	100	1900	0.92	1250	6000	1.5	67%	82.9%	0.067	6.1
BONANZA R	5020/12644	3	4.4	60	1400	1.4	1900	7800	0.8	68%	82.9%	0.057	9.4
BRODRICK CR	4950/12653	3	1.4	120	1650	0.79	1100	4500	21	65%	82.9%	0.059	5.2
BROWNS R# 1	4941/12509	3	5.9	50	400	1.2	2100	3400	2.1	65%	82.9%	0.023	9.9
BROWNS R# 2	4942/12508	3	6.4	50	750	1.4	2300	5100	2	65%	82.9%	0.032	10.9
BURMAN R	4936/12550	3	4.4	50	250	1	1600	4400	26	65%	82.9%	0.040	7.6

STREAM NAME	LAT/LONG	REGION	FLOW	HEAD	PENSTOCK		POWER	COST	TRANS.	CAPACITY	CRITICAL	$/KWH	FIRM
SORTED:Alphabetic by region			(m3/s)	(m)	L(m)	D(m)	(kW)	1000$	DIST(km)	FACTOR	ENERGY	(FIRM)	ENERGY
BUTTERWORT/ELK CR	4948/15553	3	2.6	50	375	0.91	950	3200	6.3	65%	82.9%	0.049	4.5
CAMERON R	4915/12440	3	6.2	50	250	1.2	2200	3000	9	55%	82.9%	0.023	8.8
CANTON CR	4949/12628	3	3.1	30	800	1.2	680	4500	1.5	65%	82.9%	0.096	3.2
CANTON CR EAST	4950/12628	3	1.1	30	150	0.61	240	1500	4.4	65%	82.9%	0.090	1.1
CANTON CR WEST	4950/12628	3	2	30	300	0.86	440	2400	4	65%	82.9%	0.079	2.1
CATHERINE CR	5025/12636	3	3	90	1100	1	1970	6500	19	68%	82.9%	0.046	9.7
CERVUS CR @ LADY F	4951/12547	3	5.5	100	380	1.1	3900	3800	1.6	65%	82.9%	0.014	18.4
CIRIACO CR	4956/12649	3	0.49	90	550	0.46	320	2000	8	65%	82.9%	0.090	1.5
CLUXEWE R	5029/12709	3	1.8	60	550	0.82	800	2600	11	65%	82.9%	0.047	3.8
COMOX CR	4932/12515	3	2	50	125	0.67	720	1500	18	65%	82.9%	0.030	3.4
CRAFT CR	5024/12715	3	1.2	180	1800	0.71	1500	4000	18	65%	82.9%	0.039	7.1
CRUICKSHANK CR	4936/12515	3	5.4	150	2000	1.3	5800	8900	18	65%	82.9%	0.022	27.4
DICK BOOTH CR	5041/12731	3	1.3	90	1500	0.82	880	5000	2.5	68%	82.9%	0.079	4.3
DRINKWATER CR	4926/12530	3	3.3	50	250	0.92	1100	3300	23	62%	82.9%	0.045	5.0
EHATISAHT CR	4953/12651	3	1.5	60	800	0.82	670	4600	17	65%	82.9%	0.099	3.2
ENGLISHMAN CR	4915/12421	3	10	50	1630	2	3700	11300	2.3	55%	82.9%	0.052	14.8
FAIRY CR	4836/12420	3	0.55	50	125	0.44	200	820	5.5	51%	82.9%	0.076	0.7
FELLOWS CR	4840/12353	3	0.45	50	250	0.44	160	710	15	51%	82.9%	0.082	0.6
FLEET CR	4835/12403	3	5	50	750	1.3	1800	5000	24	51%	82.9%	0.051	6.7
FRIEND CR	4958/12648	3	0.38	90	300	0.41	260	960	3	65%	82.9%	0.053	1.2
GOLD R	4952/12606	3	20	30	900	2.5	4400	13000	4.4	65%	82.9%	0.043	20.8
HANDY CR	4900/12456	3	3.8	100	310	0.89	2700	2900	29	62%	82.9%	0.016	12.2
HEADQUARTERS CR	4942/12507	3	1.5	50	250	0.68	540	1400	1.4	65%	82.9%	0.038	2.5
HECTATE LAKE	4953/12647	3	1.1	30	500	0.76	240	1900	16	65%	82.9%	0.115	1.1
HENSHAW CR #1	4936/12532	3	2.5	50	500	0.94	890	2900	43	65%	82.9%	0.047	4.2
HENSHAW CR #2	4936/12532	3	2.6	50	500	0.95	910	2800	43	65%	82.9%	0.045	4.3
HESQUIAT PT CR	4925/12623	3	1.5	40	700	0.87	440	3100	38	65%	82.9%	0.102	2.1
HOISS CR	4942/12634	3	1.3	60	950	0.8	570	3000	17	65%	82.9%	0.076	2.7
KAIPIT CR	5015/12648	3	9.7	60	700	1.6	4200	7000	6	65%	82.9%	0.024	19.8
KAOUK R	5005/12652	3	3.6	60	1400	1.3	1600	7300	18	65%	82.9%	0.066	7.6
KASHULT CR	5012/12719	3	1.5	60	950	0.83	630	3700	32	64%	82.9%	0.086	2.9
KAUWINCH R	5014/12716	3	1.2	120	900	0.68	1000	3310	24	64%	82.9%	0.049	4.6
KENDRICK CR	4944/12639	3	1.6	30	620	0.91	350	2900	23	65%	82.9%	0.120	1.7
KILPALA R	5026/12703	3	4.1	60	1700	1.4	1800	9700	17	65%	82.9%	0.078	8.5
KINMAN CR	5021/12655	3	1.5	90	1050	0.8	980	3200	21	68%	82.9%	0.045	4.8
KOKISH R	5028/12648	3	5.5	60	1400	1.5	2390	8500	2.8	68%	82.9%	0.049	11.8
KOKISH R	5029/12650	3	17	30	950	2.4	3700	15000	0.7	68%	82.9%	0.056	18.3
KOKISH R	5031/12652	3	18	90	1150	2.1	12000	17000	0.5	68%	82.9%	0.020	59.3
KOKISH R	5027/12647	3	5.2	127	1900	1.3	4700	9900	3	68%	82.9%	0.029	23.2
KUNNUM CR	5018/12614	3	2.9	91	2050	1.2	1900	9000	27	64%	82.9%	0.070	8.8
LEINER R	4956/12637	3	8.1	30	350	1.5	1700	4800	4	65%	82.9%	0.041	8.0
LUTES CR	4953/12646	3	1.5	60	450	0.74	670	2800	14	65%	82.9%	0.060	3.2
MACKTUSH CR	4906/12451	3	2.9	50	625	1	1000	3000	10	62%	82.9%	0.045	4.5
MALKSOPE R	5010/12722	3	1.1	60	1050	0.77	490	3100	26	64%	82.9%	0.093	2.3
MAMAT CR	4959/12655	3	0.63	60	600	0.56	270	1700	6	65%	82.9%	0.091	1.3
MAQUILLA CR	5005/12625	3	3.4	90	1650	1.2	2200	7700	0.8	64%	82.9%	0.051	10.2
MARBLE R	5016/12720	3	0.93	60	900	0.7	400	3000	17	65%	82.9%	0.108	1.9
MARBLE R CANYON	5026/12723	3	11	33	1700	2.2	2580	16000	5	70%	82.9%	0.083	13.1
MARGARET CR	4926/12527	3	2.9	50	250	0.87	1000	3200	23	62%	82.9%	0.049	4.5
MATCHLEE CR	4939/12603	3	1.4	40	100	0.59	400	2400	11	65%	82.9%	0.087	1.9
MAYNARD L	5024/12714	3	9.1	64	550	1.5	4190	5400	18	65%	82.9%	0.019	19.8

STREAM NAME SORTED:Alphabetic by region	LAT/LONG	REGION	FLOW (m3/s)	HEAD (m)	PENSTOCK L(m)	PENSTOCK D(m)	POWER (kW)	COST 1000$	TRANS. DIST(km)	CAPACITY FACTOR	CRITICAL ENERGY	$/KWH (FIRM)	FIRM ENERGY
MCKELVIE CR	4956/12639	3	2.4	90	600	0.86	1580	3100	4	65%	82.9%	0.028	7.5
MEGIN R TRIBUTARY	4932/12601	3	1.3	40	275	0.69	380	2600	47	65%	82.9%	0.099	1.8
MEMEKAY R	5010/12547	3	4.1	50	1000	1.3	1400	5400	7.5	67%	82.9%	0.054	6.8
MOAKWA CR	5007/12602	3	3.1	90	1250	1.1	2000	5900	22	64%	82.9%	0.043	9.3
MONTAGUE CR	5020/12612	3	2.2	152	1500	0.9	2400	5800	22	64%	82.9%	0.036	11.2
MOOYAH R	4937/12625	3	1.7	40	900	0.95	490	3800	32	65%	82.9%	0.112	2.3
MUCHALAT R	4935/12619	3	2	60	350	0.78	880	2500	12	65%	82.9%	0.041	4.2
MYRA CR AT FALLS	4935/12534	3	5.3	50	1200	1.5	1800	7200	40	65%	82.9%	0.058	8.5
NAKA CR	5028/12625	3	3.2	60	750	1.1	1400	5500	31	64%	82.9%	0.058	6.5
NARROWGUT CR	5000/12707	3	1.8	30	400	0.87	390	2900	27	65%	82.9%	0.108	1.8
NEWCASTLE CR	5022/12607	3	2	90	850	0.85	1300	3600	15	64%	82.9%	0.041	6.0
NORA CR	5008/12602	3	1.1	152	1200	0.67	1200	3100	22	64%	82.9%	0.038	5.6
NOR/MID MEMEKAY R	5011/12547	3	4.1	50	1250	1.3	1400	6800	5.5	67%	82.9%	0.068	6.8
OKTWANCH R	4947/12615	3	1.6	30	400	0.83	340	2100	0.9	65%	82.9%	0.089	1.6
OUOUKINSH R	5013/12725	3	0.92	120	1100	0.63	800	3500	21	64%	82.9%	0.064	3.7
PALMERSTON ST	5027/12616	3	1.7	90	725	0.79	1100	2800	28	64%	82.9%	0.037	5.1
PEGGATTEM CR	5038/12759	3	1.5	30	550	0.87	320	2600	29	68%	82.9%	0.112	1.6
PERRY R	4954/12637	3	5.2	30	600	1.4	1140	4900	3	65%	82.9%	0.062	5.4
PHILLIPS CR	4940/12534	3	8	50	500	1.5	2800	6900	27	65%	82.9%	0.036	13.2
PIGGOTT CR	4949/12522	3	5.3	50	250	1.1	1900	2800	14	65%	82.9%	0.021	9.0
PINDER CR	5015/12655	3	3	90	2100	1.2	1900	9000	16	65%	82.9%	0.069	9.0
PRETTY GIRL L	4930/12614	3	1.7	80	400	0.72	980	2200	32	65%	82.9%	0.032	4.6
RALPH R	4938/12531	3	1.7	50	375	0.78	620	1900	39	65%	82.9%	0.044	2.9
ROSEWALL C	4927/12448	3	2.9	100	630	0.91	2100	3200	1	62%	82.9%	0.023	9.5
SALMON R	5005/12641	3	7.5	50	700	1.5	2700	5700	19	67%	82.9%	0.030	13.1
SAN JUAN R	4836/12359	3	2.3	50	750	0.97	810	2800	18	51%	82.9%	0.064	3.0
SAUNDERS CR	4948/12601	3	3.1	90	1200	1.1	2000	5300	2	65%	82.9%	0.038	9.4
SEBALHALL CR	4947/12624	3	2.5	30	400	0.99	560	2800	10	65%	82.9%	0.072	2.6
SHEPHERD CR	4938/12531	3	3.2	50	500	1	1200	3200	39	65%	82.9%	0.039	5.7
SHUSHARTIE R	5049/12752	3	4.9	30	750	1.4	1000	5900	28	68%	82.9%	0.082	4.9
SOMBRIO R	4831/12417	3	0.87	50	380	0.6	310	1300	0.5	51%	82.9%	0.077	1.1
SONGHEES CR	5047/12735	3	4.5	30	450	1.3	990	4200	8	68%	82.9%	0.059	4.9
SOUTH ENGLISHMAN R	4915/12417	3	4.6	100	2000	1.3	3300	8400	5	55%	82.9%	0.044	13.2
SWAN CR	5001/12620	3	1.4	60	700	0.78	620	2300	1.9	65%	82.9%	0.054	2.9
TABOLT CR TRIB	4930/12606	3	1.5	40	250	0.71	430	1800	28	65%	82.9%	0.061	2.0
TAHSISH R	5013/12703	3	3	60	500	0.97	1300	3200	45	64%	82.9%	0.036	6.0
TAHSISH R	5016/12705	3	3.7	30	500	1.2	810	3300	45	65%	82.9%	0.059	3.8
TEIHSUM R	5020/12721	3	2.3	60	1700	1.1	1000	6500	17	65%	82.9%	0.094	4.7
THELWOOD CR	4933/12534	3	2.9	100	1000	1	2100	4500	41	65%	82.9%	0.031	9.9
TLATLOS CR	5023/12614	3	2.1	182	2275	0.92	2700	8000	26	64%	82.9%	0.044	12.5
TLOOLS CR	4952/12545	3	3	50	625	1.1	1070	3500	1	65%	82.9%	0.047	5.1
TLUPANA R	4946/12620	3	2.9	90	1850	1.1	1900	7700	2	65%	82.9%	0.059	9.0
TRENT R	4935/12459	3	2	50	880	0.95	700	3200	4	65%	82.9%	0.066	3.3
TSABLE R	4931/12454	3	6.8	50	500	1.4	2400	4200	4	65%	82.9%	0.025	11.3
TUGWELL CR	4825/12350	3	0.65	50	625	0.59	230	1200	5	51%	82.9%	0.096	0.9
UCONA R	4944/12557	3	6.6	50	200	1.1	2300	3200	10	65%	82.9%	0.020	10.9
UNNAMED CR	5004/12611	3	0.8	90	1200	0.65	530	3800	12	64%	82.9%	0.105	2.5
UNNAMED CR	4923/12604	3	0.77	40	300	0.57	220	1400	17	65%	82.9%	0.092	1.0
UNNAMED CR	5008/12711	3	2.3	30	500	0.99	490	3400	38	64%	82.9%	0.102	2.3
UNNAMED CR	4927/12605	3	0.57	40	220	0.48	160	1200	30	65%	82.9%	0.108	0.8
UNNAMED CR	5029/12721	3	1.2	90	600	0.65	770	2100	10	65%	82.9%	0.039	3.6

STREAM NAME	LAT/LONG	REGION	FLOW	HEAD	PENSTOCK		POWER	COST	TRANS.	CAPACITY	CRITICAL	$/KWH	FIRM
SORTED:Alphabetic by region			(m3/s)	(m)	L(m)	D(m)	(kW)	1000$	DIST(km)	FACTOR	ENERGY	(FIRM)	ENERGY
UNNAMED CR	4924/12617	3	0.38	40	150	0.41	110	930	29	65%	82.9%	0.122	0.5
UNNAMED CR	5018/12712	3	1	90	600	0.62	670	2200	27	65%	82.9%	0.047	3.2
UNNAMED CR	4957/12625	3	1.8	30	170	0.74	380	1700	9	65%	82.9%	0.065	1.8
UNNAMED CR	4948/12625	3	1.2	30	200	0.65	250	1300	0.5	65%	82.9%	0.075	1.2
UNNAMED CR	4952/12705	3	1.1	60	720	0.71	480	2300	30	65%	82.9%	0.069	2.3
UNNAMED CR	5010/12620	3	0.74	244	1450	0.54	1300	3000	13	64%	82.9%	0.034	6.0
UNNAMED CR	5021/12607	3	1.2	120	1000	0.68	1000	2800	19	64%	82.9%	0.041	4.6
UNNAMED CR	4952/12650	3	1	30	350	0.69	220	1600	19	65%	82.9%	0.105	1.0
UNNAMED CR	4955/12648	3	0.49	30	90	0.44	110	1500	9	65%	82.9%	0.197	0.5
UNNAMED CR	4929/12614	3	1.7	80	400	0.72	980	2200	30	65%	82.9%	0.032	4.6
UNNAMED CR	4923/12607	3	0.41	40	400	0.48	110	1300	13	65%	82.9%	0.171	0.5
UNNAMED CR	4947/12644	3	1.5	60	1150	0.87	640	4400	19	65%	82.9%	0.099	3.0
UNNAMED CR	5007/12636	3	1.7	120	1000	0.78	1400	4100	9	65%	82.9%	0.042	6.6
UNNAMED CR	5020/12626	3	1.1	120	1000	0.67	1000	4300	23	64%	82.9%	0.063	4.6
UNNAMED CR	5029/12222	3	1.2	180	1850	0.71	1500	4100	8	65%	82.9%	0.040	7.1
UNNAMED CR	5005/12625	3	2	60	1250	0.99	890	5000	0.8	64%	82.9%	0.083	4.1
UNNAMED CR	5010/12637	3	2	90	1200	0.92	1300	4700	7	65%	82.9%	0.052	6.1
UNNAMED CR	4946/12541	3	2.5	200	1060	0.83	3500	6100	20	65%	82.9%	0.025	16.5
UNNAMED CR	4939/12604	3	1.4	40	100	0.59	400	1800	5	65%	82.9%	0.065	1.9
UNNAMED CR	5030/12654	3	1.4	60	500	0.73	620	2000	1.6	68%	82.9%	0.045	3.1
UNNAMED CR	4921/12601	3	0.37	40	250	0.44	110	1400	16	65%	82.9%	0.184	0.5
UNNAMED CR	5010/12618	3	1.4	90	800	0.74	940	2600	14	64%	82.9%	0.041	4.4
UNNAMED CR	5011/12524	3	0.8	100	1400	0.65	570	3900	9	67%	82.9%	0.096	2.8
UNNAMED CR	5008/12637	3	2.2	60	675	0.91	960	3500	11	65%	82.9%	0.053	4.5
UNNAMED CR	5013/12605	3	0.9	55	900	0.69	350	2500	13	64%	82.9%	0.105	1.6
UNNAMED CR	5005/12628	3	1.5	90	1320	0.83	980	4600	1.2	64%	82.9%	0.069	4.6
UNNAMED CR	4957/12651	3	0.43	122	700	0.44	380	1400	5	65%	82.9%	0.053	1.8
UNNAMED CR	4950/12538	3	0.9	50	375	0.61	320	1500	14	65%	82.9%	0.068	1.5
UNNAMED CR	4919/12605	3	0.41	80	550	0.44	230	1300	4.5	65%	82.9%	0.082	1.1
UNNAMED CR	5029/12624	3	1.3	152	1250	0.7	1380	4400	33	64%	82.9%	0.047	6.4
UNNAMED CR	4948/12617	3	2	30	400	0.9	430	2300	1.5	65%	82.9%	0.077	2.0
UNNAMED CR	4917/12610	3	0.84	40	600	0.67	240	2100	6.5	65%	82.9%	0.127	1.1
UNNAMED CR	4917/12610	3	0.79	40	375	0.6	220	1600	6.5	67%	82.9%	0.102	1.1
UPANA CR	4948/12605	3	5.8	30	800	1.5	1300	5900	0.1	65%	82.9%	0.066	6.1
UTLUH CR	5019/12725	3	1.5	60	920	0.84	640	4200	10	65%	82.9%	0.095	3.0
WADY CR	5024/12717	3	1.2	180	825	0.61	1500	3000	16	65%	82.9%	0.029	7.1
WALT LAKE CR	4953/12408	3	0.7	150	600	0.49	750	1500	16	65%	82.9%	0.029	3.5
WARD CR	4947/12604	3	0.86	30	200	0.58	180	1000	0.4	65%	82.9%	0.080	0.8
WHITE CR	5018/12556	3	17.5	50	950	2.2	6300	13000	2	67%	82.9%	0.029	30.7
WILFRED CR	4928/12451	3	1.5	50	313	0.71	540	1400	3.5	62%	82.9%	0.039	2.4
WILSON CR	4939/12610	3	1.4	40	400	0.76	400	1900	11	65%	82.9%	0.069	1.9
YOOKWA CR	5004/12628	3	2.5	30	800	1.1	550	4400	3	64%	82.9%	0.118	2.6
ZEBALLOS L	5003/12646	3	5.4	90	1250	1.3	3500	7800	10	65%	82.9%	0.032	16.5
ZEBALLOS R	5003/12647	3	5.6	60	800	1.3	2400	5800	10	65%	82.9%	0.035	11.3
ZEBALLOS (LITTLE) R	4959/12645	3	1.5	210	750	0.64	2300	2620	6	65%	82.9%	0.016	10.9
ADOLPH CR #1	5231/11923	4	2.8	213	3400	1.1	4300	13600	29	50%	79.5%	0.062	15.0
ADOLPH CR #2	5231/11924	4	2.7	61	700	1	1200	4200	29	50%	79.5%	0.069	4.2
ALLAN CR	5232/11907	4	4.3	91	1900	1.3	2800	9300	12	50%	79.5%	0.065	9.7
AZURE R #1	5235/11948	4	3.4	61	800	1.1	1500	8400	60	50%	79.5%	0.110	5.2
AZURE R #2	5232/11947	4	8	30	900	1.8	1700	11500	60	50%	79.5%	0.133	5.9
BULLDOG CR	5239/11859	4	3.6	152	875	0.97	3900	7100	26	50%	79.5%	0.036	13.6

STREAM NAME SORTED:Alphabetic by region	LAT/LONG	REGION	FLOW (m3/s)	HEAD (m)	PENSTOCK L(m)	PENSTOCK D(m)	POWER (kW)	COST 1000$	TRANS. DIST(km)	CAPACITY FACTOR	CRITICAL ENERGY	$/KWH (FIRM)	FIRM ENERGY
CAMP CR	5239/11911	4	2.6	91	1100	0.98	1700	4700	2	50%	79.5%	0.054	5.9
CANIM FALLS	5153/12035	4	18	N/A	N/A	N/A	N/A	N/A	0.8	44%	79.5%	ERR	0.0
CHUA CHUA CR	5121/12007	4	0.5	450	1900	0.44	1500	3100	2	43%	79.5%	0.047	4.5
CIRQUE CR	5126/11706	4	0.4	123	700	0.44	360	1900	2	52%	79.5%	0.100	1.3
CLEARWATER RAPID-1	5149/12003	4	210	N/A	N/A	N/A	N/A	N/A	N/A	44%	79.5%	ERR	0.0
CLEARWATER RAPID-2	5141/12002	4	225	N/A	N/A	N/A	N/A	N/A	N/A	44%	79.5%	ERR	0.0
CLEARWATER RAPID-3	5139/12004	4	227	N/A	N/A	N/A	N/A	N/A	1	44%	79.5%	ERR	0.0
CLEMINA CR	5234/11905	4	2.5	152	1300	0.9	2700	5000	10	50%	79.5%	0.036	9.4
DAVE HENRY CR #1	5246/11904	4	3.2	61	850	1.1	1400	4600	15	50%	79.5%	0.064	4.9
DAVE HENRY CR #2	5245/11905	4	3.5	91	550	0.97	2300	4000	11	50%	79.5%	0.034	8.0
DAWSON FALLS	5158/12008	4	44	N/A	N/A	N/A	N/A	N/A	22	44%	79.5%	ERR	0.0
DEADMAN R @ FALLS	5109/12051	4	0.6	N/A	N/A	N/A	N/A	N/A	24	43%	79.5%	ERR	0.0
DECEPTION FALLS	5154/12028	4	34	N/A	N/A	N/A	N/A	N/A	5.5	44%	79.5%	ERR	0.0
GHITA CR	5251/11839	4	2.7	306	2750	0.94	5800	11500	31	50%	79.5%	0.039	20.2
GOODWIN FALLS	5155/12013	4	30	N/A	N/A	N/A	N/A	N/A	15	44%	79.5%	ERR	0.0
GRANT BROOK	5254/11845	4	3.9	152	1500	1.1	4200	6900	21	50%	79.5%	0.032	14.6
GRIZZLY CR	5119/11725	4	3	305	3400	1	6500	16800	50	52%	79.5%	0.049	23.5
HELMCKEN FALLS	5157/12010	4	45	N/A	N/A	N/A	N/A	N/A	19	44%	79.5%	ERR	0.0
HOLT CR	5120/11710	4	0.8	92	1500	0.68	550	3600	3	52%	79.5%	0.123	2.0
KICKING HORSE FALL	5111/11634	4	N/A	N/A	N/A	N/A	N/A	N/A	30	N/A	79.5%	ERR	0.0
KIMMEL CR	5243/11925	4	1.7	91	820	0.79	1100	4000	10	50%	79.5%	0.071	3.8
MCLENNAN R @ N.ARM	5251/11921	4	3.3	61	1250	1.2	1460	6600	5.5	50%	79.5%	0.089	5.1
MCLENNAN R	5250/11920	4	4.9	30	800	1.4	1070	5800	4	50%	79.5%	0.106	3.7
MCLENNAN R @ S.ARM	5251/11921	4	1.4	244	1450	0.69	2500	4100	6	50%	79.5%	0.032	8.7
MOOSE R	5255/11848	4	16	61	550	1.8	6800	7700	15	50%	79.5%	0.022	23.7
MUSHROOM RAPIDS	5158/12008	4	44	N/A	N/A	N/A	N/A	N/A	22	44%	79.5%	ERR	0.0
OLDMAN CR	5129/11715	4	0.5	123	750	0.46	420	2100	5	52%	79.5%	0.094	1.5
PACKSADDLE CR	5248/11908	4	1.6	122	1250	0.8	1400	3760	7.5	50%	79.5%	0.053	4.9
PETERSON CR	5112/12010	4	0.3	100	300	0.36	230	770	3	43%	79.5%	0.076	0.7
PTARMIGAN CR	5235/11850	4	9.5	61	1600	1.8	4100	12800	40	50%	79.5%	0.061	14.3
RAPIDS ON MURTLE R	5159/12006	4	43	N/A	N/A	N/A	N/A	N/A	23	44%	79.5%	ERR	0.0
SKULL CR	5109/12013	4	0.18	100	250	0.3	130	700	7	43%	79.5%	0.123	0.4
SWIFT CR #1	5252/11913	4	3.3	91	1325	1.1	2100	6500	5	50%	79.5%	0.061	7.3
SWIFT CR #2	5251/11916	4	3.7	61	1425	1.3	1600	7100	0.9	50%	79.5%	0.087	5.6
SYLVIA FALLS	5155/12013	4	30	N/A	N/A	N/A	N/A	N/A	15	44%	79.5%	ERR	0.0
UNNAMED CR	5256/11853	4	2.6	366	1420	0.8	6800	7500	11	50%	79.5%	0.022	23.7
UNNAMED CR	5255/11853	4	2.6	184	330	0.71	3450	3100	11	50%	79.5%	0.018	12.0
UNNAMED CR	5254/11846	4	2.5	152	520	0.77	2700	2880	24	50%	79.5%	0.021	9.4
YELLOWJACKET CR	5243/11903	4	3.3	61	400	0.96	1400	2800	17	50%	79.5%	0.039	4.9
ATNARKO R	5210/12542	5	10	275	3400	1.7	20000	46000	52	60%	82.8%	0.036	37.0
BEAVER CR @ FALLS	5241/12206	5	3	N/A	N/A	N/A	N/A	N/A	18	43%	82.8%	ERR	0.0
CHESHI CR	5128/12422	5	0.8	92	450	0.54	530	1970	22	45%	82.8%	0.078	1.7
CLINTON FALLS	5107/12129	5	0.4	N/A	N/A	N/A	N/A	N/A	4	44%	82.8%	ERR	0.0
DESERTERS CR	5249/12232	5	0.5	100	220	0.41	380	1100	2	37%	82.8%	0.074	1.0
HOTNARKO R	5223/12545	5	7.7	153	2250	1.5	8500	18000	30	60%	82.8%	0.033	37.0
HUNLEN CR	5217/12545	5	2.8	521	1200	0.76	10500	8800	48	65%	82.8%	0.012	49.5
JAMISON CR	5132/12426	5	0.4	396	3400	0.47	1200	6600	15	45%	82.8%	0.115	3.9
JANET CR	5223/12552	5	1	610	1950	0.53	4100	6600	32	65%	82.8%	0.023	19.3
KLINAKLINI CR	5152/12456	5	2.5	61	650	0.94	1070	4700	11	45%	82.8%	0.092	3.5
LINCOLN CR	5141/12424	5	0.1	213	1500	0.31	220	1600	2	45%	82.8%	0.152	0.7
MACKIN CR	5222/12223	5	0.5	250	2000	0.49	860	2700	2	45%	82.8%	0.066	2.8

STREAM NAME SORTED:Alphabetic by region	LAT/LONG	REGION	FLOW (m3/s)	HEAD (m)	PENSTOCK L(m)	PENSTOCK D(m)	POWER (kW)	COST 1000$	TRANS. DIST(km)	CAPACITY FACTOR	CRITICAL ENERGY	$/KWH (FIRM)	FIRM ENERGY
MAYDOE CR	5208/12516	5	0.7	213	3250	0.62	1030	7620	35	60%	82.8%	0.116	4.5
MCCLINCHY CR	5207/12510	5	3.1	30	800	1.2	670	5740	33	60%	82.8%	0.134	2.9
MCLEESE CR	5220/12217	5	0.3	150	1300	0.45	360	1740	0	45%	82.8%	0.101	1.2
MOSHER CR	5225/12558	5	1.1	457	2400	0.6	3450	6700	32	65%	82.8%	0.028	16.3
NUDE CR FALLS	5123/12445	5	7.5	N/A	N/A	N/A	N/A	N/A	54	50%	82.8%	ERR	0.0
RELIANCE CR	5123/12441	5	1.7	92	350	0.68	1100	4000	50	50%	82.8%	0.068	4.0
STIKELAN CR #1	5128/12424	5	4.8	31	450	1.3	1070	4200	22	45%	82.8%	0.082	3.5
STIKELAN CR #2	5127/12422	5	3.3	91	900	1	2100	5300	25	45%	82.8%	0.053	6.9
UNNAMED CR	5155/12444	5	0.5	61	750	0.53	210	1600	1	40%	82.8%	0.179	0.6
UNNAMED CR	5126/12445	5	1.1	336	1350	0.58	2600	7430	60	50%	82.8%	0.054	9.4
UNNAMED CR	5144/12427	5	0.4	425	3700	0.47	1310	5300	1	45%	82.8%	0.085	4.3
VALLEAU CR	5144/12443	5	1.2	92	1050	0.73	790	3010	25	45%	82.8%	0.080	2.6
YOUNG CR	5225/12553	5	5.5	457	2500	1.1	18000	23000	32	65%	82.8%	0.019	84.9
YOUNG CR @ RAPIDS	5232/12554	5	1.2	61	900	0.78	540	3500	20	60%	82.8%	0.102	2.4
CACOOHTIN CR	5226/12619	6	1.7	214	1200	0.73	2590	3600	2	65%	91.6%	0.018	13.5
CHRISTENSON CR	5228/12641	6	2.8	91	1400	1.1	1830	7620	12	65%	91.6%	0.055	9.5
CLAYTON FALLS CR	5222/12649	6	6.6	61	700	1.4	2900	5500	0	65%	91.6%	0.025	15.1
MILL CR	5224/12634	6	1.1	638	2200	0.56	4800	6800	1.5	65%	91.6%	0.019	25.0
NIEUMIAMUS CR	5225/12651	6	2.5	61	1450	1.1	1080	6400	10	65%	91.6%	0.078	5.6
NOEICK R	5205/12634	6	14	122	2150	2	12200	24100	56	65%	91.6%	0.026	63.6
NOOMST CR #1	5223/12615	6	1.3	427	2950	0.69	4070	9950	7	65%	91.6%	0.032	21.2
NOOMST CR #2	5226/12613	6	3.4	61	550	1	1480	3600	1	65%	91.6%	0.032	7.7
NOOSGULCH CR	5226/12623	6	8.4	30	700	1.7	1800	6500	1	65%	91.6%	0.047	9.4
NOOKLIKONNIK CR	5222/12634	6	1.7	366	2400	0.75	4480	7900	2	65%	91.6%	0.023	23.4
NORDSCHOW CR	5218/12603	6	2.9	183	1500	0.95	3790	7030	20	65%	91.6%	0.024	19.8
SALLOOMT CR	5227/12632	6	8.6	31	850	1.8	1910	7300	7	65%	91.6%	0.050	10.0
SMITELY R @ FALLS	5205/12636	6	18.6	31	450	2.1	4100	9300	56	65%	91.6%	0.030	21.4
SMITELY R	5207/12639	6	15	61	400	1.7	6500	8000	61	65%	91.6%	0.016	33.9
SNOOTLI CR	5223/12636	6	2.2	152	1250	0.86	2420	4530	0.5	65%	91.6%	0.025	12.6
TASISQUAN CR	5222/12645	6	1.9	91	250	0.67	1200	1730	0.5	65%	91.6%	0.019	6.3
THORSEN CR	5221/12642	6	6.1	80	1550	1.5	3500	8830	1	65%	91.6%	0.033	18.3
TSEAPSEAHOOLZ CR	5226/12624	6	1.3	274	1900	0.68	2470	4730	0.5	65%	91.6%	0.025	12.9
TSINI-TSINI CR	5222/12606	6	1.2	213	1450	0.66	1790	3800	12	65%	91.6%	0.028	9.3
UNNAMED CR	5210/12650	6	3.2	152	1050	0.96	3500	5000	31	65%	91.6%	0.019	18.3
UNNAMED CR	5210/12650	6	2.9	396	3200	0.96	8400	18000	31	65%	91.6%	0.028	43.8
UNNAMED CR	5201/12632	6	4.1	214	1300	1	6280	9000	61	65%	91.6%	0.019	32.8
UNNAMED CR	5221/12640	6	0.4	1036	2700	0.41	2800	7700	0.5	65%	91.6%	0.036	14.6
BOUNDING CR	5328/12039	7	0.5	92	800	0.52	350	2200	37	50%	72.3%	0.136	1.1
CARROLE FALLS	5358/12351	7	N/A	N/A	N/A	N/A	N/A	N/A	1.5	40%	72.3%	ERR	0.0
CLYDE CR #1	5323/12022	7	1.1	183	2250	0.7	1400	4800	15	50%	72.3%	0.074	4.4
CLYDE CR #2	5323/12022	7	1.1	91	900	0.68	690	2600	16	50%	72.3%	0.081	2.2
DORE CR #1	5316/12017	7	6.8	92	1600	1.5	4450	10300	13	50%	72.3%	0.050	14.1
DORE CR #2	5313/12017	7	5.2	91	1500	1.4	3420	8830	17	50%	72.3%	0.056	10.8
EAST TWIN CR	5328/12023	7	3.9	61	300	0.98	1720	3000	22	50%	72.3%	0.038	5.4
EDDY CR	5314/12007	7	0.7	213	1000	0.51	1070	2330	10	50%	72.3%	0.047	3.4
FLEET CR	5330/12027	7	2	91	1500	0.95	1300	6800	32	50%	72.3%	0.113	4.1
HOLLIDAY CR	5311/11953	7	1.8	91	1400	0.9	1190	5100	28	50%	72.3%	0.092	3.8
HORSEY CR	5308/11941	7	5.9	122	2050	1.4	5150	11500	14	50%	72.3%	0.048	16.3
LEGRAND	5325/12023	7	0.5	152	1150	0.49	550	2100	22	50%	72.3%	0.082	1.7
MCINTOSH CR	5321/12020	7	1.2	92	800	0.69	760	2430	12	50%	72.3%	0.069	2.4
MCKALE R	5327/12012	7	1.1	183	1600	0.66	1380	4700	25	50%	72.3%	0.073	4.4

STREAM NAME SORTED:Alphabetic by region	LAT/LONG	REGION	FLOW (m3/s)	HEAD (m)	PENSTOCK L(m)	D(m)	POWER (kW)	COST 1000$	TRANS. DIST(km)	CAPACITY FACTOR	CRITICAL ENERGY	$/KWH (FIRM)	FIRM ENERGY
NECHAKO R RAPIDS	5352/12303	7	350	N/A	N/A	N/A	N/A	N/A	1.5	50%	72.3%	ERR	0.0
NECHAKO R RAPIDS	5358/12343	7	200	N/A	N/A	N/A	N/A	N/A	4	50%	72.3%	ERR	0.0
NECHAKO R RAPIDS	5357/12315	7	328	N/A	N/A	N/A	N/A	N/A	9	50%	72.3%	ERR	0.0
ROBSON R	5303/11913	7	6.1	61	1050	1.5	2690	7030	2.5	50%	72.3%	0.056	8.5
SMALL CR	5304/11935	7	9.1	61	1400	1.8	4000	11050	7	50%	72.3%	0.060	12.7
SWIFTCURRENT CR	5301/11917	7	5.8	61	800	1.4	2550	5730	0.5	50%	72.3%	0.048	8.1
UNNAMED CR	5308/12001	7	0.9	335	1300	0.55	2240	4700	23	50%	72.3%	0.045	7.1
UNNAMED CR	5321/11951	7	1.3	274	2000	0.69	2490	9300	32	50%	72.3%	0.081	7.9
UNNAMED CR	5310/12002	7	0.5	549	1700	0.41	1830	4440	18	50%	72.3%	0.052	5.8
ALICE CR	5440/12847	8	1.9	92	1200	0.89	1250	4000	1	60%	85.5%	0.049	5.6
ANDERSON CR	5402/12843	8	2.6	61	900	1	1140	3710	5	60%	85.5%	0.049	5.1
BOLTON CR	5413/12826	8	4.8	61	1050	1.3	2100	6600	18	60%	85.5%	0.048	9.4
BOWBYES CR	5409/12842	8	1.4	122	800	0.7	1230	2400	8	60%	85.5%	0.030	5.5
BUCK CR	5420/12637	8	3.7	50	900	1.2	1300	4850	2.3	50%	72.3%	0.080	4.1
CHIST CR #1	5419/12824	8	3.4	31	700	1.2	740	5100	13	60%	85.5%	0.105	3.3
CHIST CR #2	5419/12818	8	2.7	61	975	1	1180	5900	16	60%	85.5%	0.076	5.3
CHIMDEMASH CR	5440/12822	8	4.5	122	2500	1.3	3950	10400	0	60%	85.5%	0.040	17.8
COLDWATER CR	5420/12840	8	2.8	91	1825	1.1	1840	7100	7.5	60%	85.5%	0.059	8.3
DAHL CR	5409/12843	8	2.4	91	600	0.86	1580	2700	10	60%	85.5%	0.026	7.1
DASQUE CR	5423/12855	8	3.7	61	920	1.2	1600	6010	16	60%	85.5%	0.057	7.2
ERLANDSEN CR	5436/12844	8	4	61	1500	1.3	1750	6710	9	60%	85.5%	0.058	7.9
GOAT CR	5443/12846	8	1.7	91	675	0.77	1120	2210	4	60%	85.5%	0.030	5.0
HANKIN CR	5435/12826	8	1	91	950	0.67	660	3100	1	60%	85.5%	0.071	3.0
HARDSCRABBLE CR	5442/12820	8	2.9	61	350	0.9	1270	3300	8	60%	85.5%	0.039	5.7
HOWSON CR	5433/12721	8	2	50	700	0.91	700	3900	28	50%	85.5%	0.102	2.6
HUMPHRYS CR	5411/12830	8	1.4	122	1900	0.82	1230	5050	13	60%	85.5%	0.062	5.5
KLEANZA CR	5436/12822	8	9.2	92	1200	1.6	6060	8900	2	60%	85.5%	0.022	27.2
MCKAY CR	5413/12825	8	4.9	152	2750	1.4	5370	13100	18	60%	85.5%	0.037	24.1
MOLYBDENUM CR	5434/12845	8	1	152	1100	0.63	1090	2300	8.5	60%	85.5%	0.032	4.9
NABEELAH CR	5408/12832	8	1.4	92	900	0.75	920	2500	6	60%	85.5%	0.041	4.1
PINKUT CR FALLS #1	5427/12527	8	6	31	400N/A		1300	4200	30	43%	72.3%	0.081	3.5
PINKUT CR FALLS #2	5426/12525	8	6	N/A	N/A	N/A	N/A	N/A	30	43%	72.3%	ERR	0.0
RALEY CR	5412/12842	8	1.5	91	1250	0.82	980	3900	15	60%	85.5%	0.060	4.4
SERB CR RAPIDS	5446/12738	8	2.2	N/A	N/A	N/A	N/A	N/A	28	50%	85.5%	ERR	0.0
SHAMES R	5425/12845	8	4.3	61	1320	1.3	1880	6060	15	60%	85.5%	0.049	8.4
SHANNON CR	5440/12730	8	1.5	122	1200	0.77	1300	3400	17	60%	85.5%	0.040	5.8
SINCLAIR CR	5437/12730	8	0.7	100	1500	0.62	480	3000	17	50%	85.5%	0.114	1.8
STE CROIX	5442/12819	8	1.7	122	1400	0.83	1490	4050	6	60%	85.5%	0.041	6.7
TROUT CR	5451/12719	8	1.6	50	500	0.79	570	1910	0	60%	85.5%	0.051	2.6
UNNAMED CR	5415/12846	8	0.7	122	800	0.54	610	2340	21	60%	85.5%	0.058	2.7
UNNAMED CR	5423/12853	8	1.4	183	1250	0.7	1800	4440	15	60%	85.5%	0.037	8.1
UNNAMED CR	5405/12830	8	1	61	950	0.73	440	2600	5	60%	85.5%	0.090	2.0
UNNAMED CR	5419/12824	8	1.2	91	850	0.7	790	3000	10	60%	85.5%	0.058	3.6
UNNAMED CR	5422/12854	8	2.2	122	2100	0.99	1900	7920	15	60%	85.5%	0.063	8.5
UNNAMED CR	5405/12820	8	2.6	91	900	0.95	1700	5500	22	60%	85.5%	0.049	7.6
WHITE CR	5424/12841	8	1.3	152	1750	0.75	1390	4020	8	60%	85.5%	0.044	6.2
WILLIAMS CR	5424/12825	8	7.5	61	1100	1.6	3290	7510	6	60%	85.5%	0.035	14.8
ZYMOETZ R	5447/12749	8	8.4	N/A	N/A	N/A	N/A	N/A	38	50%	85.5%	ERR	0.0
ARDEN CR	5419/12941	9	1.2	336	750	0.55	2900	4500	16	70%	85.5%	0.020	15.2
AYTON CR	5411/12943	9	4.5	31	400	1.2	1000	3830	6	70%	85.5%	0.050	5.2
BROWN CR	5402/12950	9	6	107	500	1.1	4660	4400	3	72%	85.5%	0.012	25.1

STREAM NAME	LAT/LONG	REGION	FLOW	HEAD	PENSTOCK		POWER	COST	TRANS.	CAPACITY	CRITICAL	$/KWH	FIRM
SORTED:Alphabetic by region			(m3/s)	(m)	L(m)	D(m)	(kW)	1000$	DIST(km)	FACTOR	ENERGY	(FIRM)	ENERGY
COLONEL JOHNSON CR	5413/13009	9	0.3	276	800	0.36	610	1530	5	70%	85.5%	0.033	3.2
HAANS CR SANDSPIT	5313/13153	9	1.5	62	1900	0.95	650	6600	4	65%	82.9%	0.147	3.1
KHTADA CR	5411/12936	9	15	62	900	2	6690	9800	0.5	70%	85.5%	0.019	35.1
LIGNITE CR	5355/13237	9	4.7	61	1000	1.3	2060	6940	35	65%	82.9%	0.049	9.7
MARION CR	5422/13003	9	1	122	1600	0.7	870	3610	20	70%	85.5%	0.054	4.6
NCDONALD CR	5407/12954	9	1.2	315	1900	0.64	2600	4600	0.5	70%	85.5%	0.023	13.6
SACHS CR	5312/13158	9	1.2	91	850	0.7	780	2400	5	65%	82.9%	0.045	3.7
TALA HAAT CR	5446/13004	9	3.1	30	300	1	660	3030	5	65%	85.5%	0.064	3.2
TLELL R	5322/13200	9	2.2	30	600	1	470	4700	14	65%	82.9%	0.145	2.2
UNNAMED CR	5405/12956	9	3.8	30	400	1.2	820	3460	12	70%	85.5%	0.055	4.3
UNNAMED CR	5410/12956	9	0.1	650	2000	0.23	490	1900	0.5	70%	85.5%	0.050	2.6
UNNAMED CR	5308/13153	9	1.3	30	600	0.84	280	2800	11	70%	82.9%	0.134	1.4
UNNAMED CR	5427/13004	9	0.6	274	1100	0.47	1180	2200	30	70%	85.5%	0.024	6.2
UNNAMED CR	5406/12955	9	5.6	31	600	1.4	1250	5100	12	70%	85.5%	0.053	6.6
UNNAMED CR	5420/12946	9	0.7	397	800	0.45	2000	3940	16	70%	85.5%	0.026	10.5
UNNAMED CR	5411/12945	9	1.5	122	1300	0.78	1300	3720	10	70%	85.5%	0.037	6.8
AMERICAN CR	5608/12954	11	5.1	91	1400	1.3	3340	8800	25	55%	85.5%	0.044	13.8
BARNEY GULCH	5557/12958	11	0.5	457	2000	0.45	1590	3400	2	55%	85.5%	0.035	6.5
BEAR R	5607/12946	11	5.1	30	450	1.3	1100	4100	28	55%	85.5%	0.062	4.5
BLACKSTOCK CR	5540/12745	11	0.8	92	550	0.56	530	1760	20	50%	85.5%	0.061	2.0
CARRIGAN CR	5538/12745	11	0.72	91	650	0.55	470	1830	16	50%	85.5%	0.071	1.8
CASCADE R	5603/13002	11	4.1	61	350	1	1800	3100	17	55%	85.5%	0.029	7.4
CAUSQUA CR	5502/12716	11	1	91	550	0.62	680	1920	4.5	50%	85.5%	0.051	2.5
CLARY CR	5528/12927	11	2	488	2050	0.73	6950	9600	3	65%	85.5%	0.019	33.8
GLACIER CR	5559/12956	11	2.9	61	600	0.99	1270	3620	7	55%	85.5%	0.047	5.2
INSECT CR	5503/12829	11	1.3	152	2550	0.81	1430	8730	13	60%	85.5%	0.093	6.4
JUNIPER CR	5507/12742	11	1.2	91	1550	0.79	780	4840	8	60%	85.5%	0.094	3.5
KELSKIIST CR	5521/12942	11	3.4	183	1550	1	4500	6900	28	60%	85.5%	0.023	20.2
KSHADIN CR	5527/12903	11	3	92	1150	1.1	1980	7600	6	60%	85.5%	0.058	8.9
KWINATAHL R	5525/12908	11	6.8	123	1300	1.4	6000	10400	1	60%	85.5%	0.026	27.0
LUND CR	5510/12720	11	0.54	153	1000	0.49	590	2400	16	50%	85.5%	0.074	2.2
MARMOT R	5553/13000	11	5.6	61	650	1.3	2460	5200	7	55%	85.5%	0.035	10.1
MILL CR	5506/12807	11	3.4	61	1125	1.2	1490	5550	3	60%	85.5%	0.057	6.7
SEASKINNISH CR	5516/12859	11	2.4	136	1750	0.97	2330	6850	2	60%	85.5%	0.045	10.5
SEDAN CR	5505/12812	11	4.6	61	850	1.3	2030	5230	8	60%	85.5%	0.039	9.1
UNNAMED CR	5521/12840	11	1.7	183	1750	0.8	2200	8030	30	50%	85.5%	0.067	8.2
UNNAMED CR	5503/12807	11	2.6	61	950	1	1140	4800	3.3	60%	85.5%	0.064	5.1
UNNAMED CR	5526/12846	11	0.9	152	1050	0.59	980	3100	16	50%	85.5%	0.058	3.7
UTSUN CR	5527/12735	11	0.74	122	1450	0.61	650	2900	5	50%	85.5%	0.081	2.4
WILSON CR	5503/12817	11	1.1	122	1525	0.71	950	3500	5	60%	85.5%	0.056	4.3
BEATTY CR	5806/13111	13	3.9	92	1370	1.2	2580	9500	17	45%	88.1%	0.072	9.0
CLASSY CR	5801/13047	13	0.84	152	900	0.57	920	2950	17	45%	88.1%	0.063	3.2
DODJATIN CR	5753/13118	13	0.78	122	750	0.55	680	2010	12	45%	88.1%	0.058	2.4
EIGHT MILE CR	5758/13105	13	0.27	91	150	0.31	180	732	10	45%	88.1%	0.080	0.6
FOURTH OF JULY CR	5940/13339	13	1.8	92	1600	0.92	1180	5760	8	30%	88.1%	0.144	2.7
HARTZ CR	5803/13100	13	0.33	213	1600	0.45	520	2990	9	45%	88.1%	0.113	1.8
HITCHCOCK CR	5955/13348	13	1.8	62	1025	0.9	780	4200	40	30%	88.1%	0.159	1.8
INDIAN CR	5949/13347	13	0.16	30	275	0.78	340	1700	32	30%	88.1%	0.147	0.8
MEEHAUS CR	5805/13043	13	0.97	92	670	0.62	640	2800	20	45%	88.1%	0.086	2.2
MESS CR	5753/13112	13	24	61	1600	2.6	10300	25630	3	45%	88.1%	0.049	35.8
NINE MILE CR	5759/13102	13	0.2	213	950	0.36	320	1300	13	45%	88.1%	0.080	1.1

STREAM NAME SORTED:Alphabetic by region	LAT/LONG	REGION	FLOW (m3/s)	HEAD (m)	PENSTOCK L(m)	D(m)	POWER (kW)	COST 1000$	TRANS. DIST(km)	CAPACITY FACTOR	CRITICAL ENERGY	$/KWH (FIRM)	FIRM ENERGY
PINE CR DITCH	5935/13335	13	4.5	61	700	1.2	1970	4610	0.5	30%	88.1%	0.069	4.6
TELEGRAPH CR	5754/13110	13	0.56	152	1200	0.51	610	2050	0	45%	88.1%	0.066	2.1

TABLE 7.1.6 WATER POWER LISTINGS

Undeveloped Sites in British Columbia (R.V. White)

Number SNASE [illegible] 1/ [illegible]

Site Name	Lat. 50°35	Long. 116°16	Stream HORSETHIEF CR
Drainage Area (sq. mi) 220	Description Interior Mountains		Tributary to COLUMBIA R

Location Horse Thief Creek Flows East to the Columbia River 6 miles North of Lake Windermere [illegible] Damsite is in Canyon 11½ miles From Mouth

Description of Project 1) Storage & Diversion Dam on Horse Thief Creek
2) Diversion Dam and Canal on Boulder Creek
Qmin = 56 Qmax = 151

Run-off Factors (cfs./sq. mi.)	Min.	Average	Max.	Ord. Min.	Ord. 6 mo.	Data Source
	0.19	1.86	16	0.25	0.48	8 NAs (Toby Cr) + Estimate
Flows (cfs)	42	410	3500	55	105	

At Site Alternatives		No. 1	No. 2	No. 3	No. 4
Full Pool Elevation (feet)			3603	3603	3603
Min. Pool Elevation (feet)			3516	3516	3516
Average Tailwater (feet)			3250	3081	3139
Average Head (gross) (feet)			324	493	435
Estimated Power Unregulated Flow	Minimum (hp)		1600	2500	2200
	Maximum (hp)		3100	4700	4150
Usable Storage at Site (Acre feet)		[illegible]	96,000	96,000	90,000
Usable Storage Upstream (Acre feet)			NIL	NIL	NIL
Firm Flow (Regulated) (cfs)			280	280	210
Estimated average Prime Power	Turbine (hp)	[illegible]	8250	13,500	11,000
	Generator (kw)		6100	9400	5700
Proposed installation	Turbine (hp)				
	Generator (kw)	(Gas) 1,320	(2nd) 4,900	(3rd) 13,500	

References BCWR3 Report 373 (1953)

Date	By	Remarks and Revisions
SEPT 63	EDA	2nd Power House 2 miles Below Dam 3rd Power House 3½ miles Below Dam 4th Power House on Lillian Lake - Proposed in consultation with ENASED

P

1/ Status of Listing: C= on current listings; A= current but alternate site only; O= not on current lists.

Date Sept /63
Prepared by

LIST OF SITES WITH 6 MO FLOW < 30000 HP

TABLE 7.1.7

Sites Listed Alphabetically - Province Wide

Ref. No.	Stream Name	Tributary to:	Lat/Long	Min HP using ordinary minimum flows	Max HP using ordinary 6 mo flows	Power using firm regulated flow	Storage	Drain-age	Head	Suit-ability	BCWRB Report No.
DS11	AALTANASH R	AALTANASH I	5307/12829	370	1200	210	NIL	28	82	P	521
DS13	AALTANASH R	AALTANASH I	5307/12829	360	1135	196	NIL	36	60	P	521
DS12	AALTANASH R	AALTANASH I	5307/12829	415	1300	224	NIL	33	75	P	521
DS1	ADAMS R	SHUSWAP LAKE	5056/11939	5760	19000	30400	502000	1600	190	F	-
AS4	AIN R	MASSET INLET	5345/13226	2480	7000	13500	300000	155	124	F	
DS14	AKOLKOLEX R	COLUMBIA R	5050/11802	3360	11190	2240	NIL	150	410	P	-
KS18	ALDRIDGE	ELK RIVER	5024/11454	540	1270	360	NIL	20	1000	P	-
CS2	AMERICAN RIVER	BEAR RIVER	5606/12953	1000	2900	1000	NIL	40	250	P	-
CS1C	ANDERSON CK	BABINE LAKE	5424/12524	313	785	1225	82000	328	75	F	639
CS1A	ANDERSON CK	BABINE LAKE	5423/12524	-	-	-	82000	328	-	P	639
CS1B	ANDERSON CK	BABINE LAKE	5426/12524	510	1280	2000	82000	335	120	F	639
8MFS6B	ANDERSON R	FRASER R	4950/12125	2180	5250	1428	-	180	246	F	17
8MFS6C	ANDERSON R	FRASER R	4950/12125	1060	2560	800	-	180	120	P	17
8MFS6A	ANDERSON R	FRASER R	4950/12124	1730	4200	1138	-	180	196	F	17
CS15	ANYOX CK	GRANBY BAY	5525/12952	930	2500	11000	25000	51	250	G	-
LS23	ASHNOLA R	SIMILKAMEEN R	4907/12018	70	460	720	52000	140	90	F	-
LS24	ASHNOLA R	SIMILKAMEEN R	4909/12012	225	1525	2600	100000	220	190	F	-
LS22	ASHNOLA R	SIMILKAMEEN R	4904/12019	-	-	-	30000	116	-	P	-
AS7	ATLIN LAKE	YUKON RIVER	5908/13352	-	-	-	-	-		F	573,771,770
CS3	BABINE R	SKEENA RIVER	5528/12644	2900	7100	12200	780000	3090	80	F	28,29
CS5	BABINE R	SKEENA RIVER	5430/12510	-	-	-	780000	3090	-	F	28,29
BS9	BARRIERE R	N THOMPSON R	5114/12002	1450	2160	5600	120000	440	190	F	-
8FBS14	BASSILLE'S CK	BELLA COOLA R	5223/12634	700	2200	300	PONDAGE	17	550	P	BCPC
ES2	BEATON CK	UPPER ARROW L	5039/11733	1950	5000	7800	AMPLE	40	855	F	-
BS6	BEAVER R	COLUMBIA R	5131/11712	710	1600	670	NIL	424	74	P	39
AS10	BELL-IRVING R	NASS RIVER	5619/12917	4400	16000	27000	1200000	1830	60	F	544 to 548
ES2	BENSON R	ALICE L	5025/12723	750	2800	2500	23400	81	130	F	487
BS3	BIG CREEK	CHILCOTIN R	5147/12247	4300	11000	2300	-	950	500		
8GDS17	BISHOP R	BUTE INLET	5101/12412	-	-	175000	-	-	600	F	BCPC
CS3	BITTER CK	BEAR RIVER	5601/12956	1050	2850	520	NIL	88	175	P	-
BS5	BLAEBERRY	COLUMBIA R	5130/11659	960	2100	1000	-	271	155	P	-
ES9	BLIND CK	ZEBALLOS R	5004/12645	500	3000	5400	24300	16.4	500	P	930,932
HS18	BLUE LEAD R	QUESNEL L		120	280	43	NIL	36	95	P	55
FS4	BONAPART R	THOMPSON R	5046/12118	1270	3180	-	-	2000	350		-
DS9	BOWRON R	FRASER R	5316/12127	-	-	-	110000	310	-	F	61
DS12	BOWRON R	FRASER R	5359/12210	5250	9000	13850	500000	1300	127	F	61
DS10	BOWRON R	FRASER R	5326/12133	-	-	-	344500	410	-	F	61
DS11	BOWRON R	FRASER R	5354/12159	1560	2650	5500	344500	1260	39	F	61
DS8	BOWRON R	FRASER R	5316/12124	-	-	-	60000	170	-	F	61,926
DS3	BOWRON R	FRASER R	5355/12206	4700	8100	11300	460000	1300	114	F	61926
DS4	BOWRON R	FRASER R	5355/12208	2280	3900	5000	110000	1300	50	F	926
DS2	BOWRON R	FRASER R	5355/12201	2250	3850	5000	110000	1280	50	F	926
DS5	BOWRON R	FRASER R	5357/12210	2280	3900	5000	110000	1300	50	P	926
DS1	BOWRON R	FRASER R	5327/12134	2200	3900	5000	110000	550	100	F	61
AS9	BOWSER R	BELL-IRVING R	5622/12922	330	1200	2000	270000	415	20	P	544 to 548
CS16	BOYLE CK	TOBA RIVER	5030/12415	440	1160	2900	4800	5.4	800	F	57
AS9	BRANDYWINE R	CHEAKAMUS R	5002/12307	725	1415	18500	164000	18	346	F	108,64
CS18	BREM RIVER	TOBA INLET	5026/12440	3700	10000	1700	NIL	90	350	P	58
DS8	BREW CK	HOMATHKO R	5105/12502	8400	22000	3400	NIL	71	660	P	-
ES9	BRIM R "A"	GARDNER C	5332/12823	770	2480	430	NIL	10	470	P	605
BS6	BRITTAIN R	JERVIS INLET	4955/12450	1100	3700	4000	1500	48	285	P	63
BS4	BROWN BEAR CK	NASS RIVER	5548/12848	230	850	1630	AMPLE	192	30	P	547

See p.9 for notes

LIST OF SITES WITH 6 MO FLOW < 30000 HP

Sites Listed Alphabetically - Province Wide

Ref. No.	Stream Name	Tributary to:	Lat/Long	Min HP using ordinary minimum flows	Max HP using ordinary 6 mo flows	Power using firm regulated flow	Storage	Drain-age	Head	Suit-ability	BCWRB Report No.
GS8	BROWN LAKE	ECSTALL R	5403/12950	690	2760	6900	23000	23	380	G	41,42
BS9	BROWNS R	PUNTLEDGE R	4941/12509	640	3800	320	NIL	28	500	P	-
ES1	BULKLEY R	SKEENA R	5442/12703	1820	10800	5650	750000	3480	23	F	69
ES2	BULKLEY R	SKEENA R	5450/12710	1620	9750	4900	750000	3550	20	P	69
DS14	BUTEDALE CK	FRASER REACH	5307/12840	1110	3500	5800	47800	25	266	F	78
AS12	CANIM R	MANHOOD L	5153/12034	3280	4570	15100	180000	1470	347	F	-
AS11	CANIM R	MANHOOD L	5152/12035	1090	1520	5040	180000	1470	115	F	-
AS20	CANYON CK	COLUMBIA R	5108/11658	1160	3460	1160	NIL	55	850	P	95
BS6	CANYON CK	SKEENA R	5613/12801	450	1450	2180	30000	102	200	P	-
HS21	CARIBOO R	QUESNEL R	5300/12111	4100	12000	13600	350000	665	125	F	675
HS20	CARIBOO R	QUESNEL R	5303/12108	-	-	-	600000	500	-	P	675,680,99
HS4	CARIBOO R	QUESNEL R	5241/12127	4500	12500	23000	680000	1200	115	F	671,675,680
HS2	CARIBOO R	QUESNEL R	5303/12110	3400	10000	11600	350000	546	116	F	99,675
JS13	CARPENTER	SLOCAN L	5000/11720	950	1900	570	NIL	60	350	P	-
DS8	CARTER R	FINLAYSON CH	5251/12822	1870	5900	9700	81000	43	260	F	98
CS4	CASCADE R	SALMON RIVER	5606/13001	2900	8000	9850	10830	20	2000	G	-
CS16	CASCADE R	SALMON R	5607/13000	680	1950	2600	10830	18	535	F	-
ES6	CAYOOSH CK	SETON R	5039/12201	960	1950	600	NIL	330	90		
DS10	CERVUS CK	ELK RIVER	4951/12547	900	2600	900		21	450	P	-
8FBS4A	CHARLOTTE L	ATNARKO R	5212/12530	-	-	-	250000	260	-	G	BCPC
8MGS5	CHEHALIS R	HARRISON R	-	2560	15700	670	234000	77	770	P	109,445
AS2	CHESLATTA R	NECHAKO R	5338/12457	530	1180	2366	100000	525	200	F	-
8MAS4	CHILKO L	CHILKO R	5104/12403	-	-	576000	-	845	2140	F	BCPC
8MAS3	CHILKO R	CHILCOTIN R	5138/12411	-	-	-	540000	845	NIL	F	BCPC
8MHS1A	CHILLIWACK R	FRASER R	4906/12128	9900	23800	22500	150000	128	620	F	116,117,118
8MAS9	CHOELQUOIT L	CHILKO R	5144/12408	-	-	-	126000	12	NIL	F	BCPC
8MAS10	CHOELQUOIT L	CHILKO R	5144/12426	-	-	204000	1116000	12	1120	F	BCPC
CS4	CHUSAN CK	TOBA INLET	5027/12422	1800	4700	1320	NIL	17.5	855	P	121
AS4A	CLEARWATER	N THOMPSON R	5143/12001	12300	27600	77000	4074000	3910	116	F	1088
AS4	CLEARWATER	N THOMPSON R	5143/12001	12300	27600	84400	3744000	3910	116	F	124,127,128
A23	CLEARWATER R	N THOMPSON R	5240/12003	11250	25200	71000	4074000	3950	106	F	1088
BS31	COEUR D'ALENE CK	EFFINGHAM I	4903/12507	55	410	15	NIL	7.3	150	P	-
ES25	COLUMBIA R	PACIFIC OCEAN	4920/117	NIL	-	-	7100000	11000	-	G	
8MFS13	COQUIHALLA R	FRASER R	4922/12122	2670	6500	2720	3000	310	300	P	153
AS1	COWICHAN R	COWOCJAM BAY	4845/12400	1130	8600	4500	169000	235	100	F	151
ES11	CRAB RIVER	GARDNER C	5334/12843	6400	20000	34000	99000	53	740	F	181
BS7	CUMMINGS	COLUMBIA R	5203/11814	1300	2850	1850	NIL	140	405	P	-
CS2	DAWSON CK	CANOE R	5216/11830	410	660	312	NIL	42	345	P	-
CS2	DEAN RIVER	DEAN CHANNEL	5253/12605	550	1100	550	NIL	1520	80	P	203
ES3	DEVEREUX CK	KLINAKIWI RIVER	5112/12534	1200	3000	2200	7500	22	300	F	-
DS10	DOME L	AALTANASH I	5307/12829	480	1530	1530	11000	12	240	F	521
AS9	DOOS CK	OWIKENO LAKE	5139/12654	1700	7500	1320	NIL	45	415	P	207
BS29	DORA L	GT CENTRAL L	4919/12518	650	1470	3270	4600	4.5	1800	F	208
ES5	DOROTHY CK	KLINAKINI RIVER	5124/12539	2600	6500	1080	NIL	41	360	P	-
BS17	DRINKWATER CK	GT CENT. LAKE	4927/12530	960	3840	480	NIL	9.6	880	P	-
BS16	DRINKWATER CK	GT CENT. LAKE	4927/12532	360	1440	190	NIL	2.1	1580	P	-
BS18	DRINKWATER CK	GT CENT. LAKE	4925/12526	1025	4100	430	NIL	27.4	250	P	-
HS28	DUNCAN R	KOOTENAY L	5015/11656	6900	13700	25800	1400000	880	83	G	-
BS14	DUNN CK	JOSEPH CK	5127/12008	102	410	820	29000	39	205	F	220
AS19A	ELAHO R	SQUAMISH R	5010/12335	8800	25000	5350	NIL	40	1730	F	238
8GAS19B	ELAHO R	SQUAMISH R	5010/12335	-	-	121000	128000	220	955	F	BCE
KS16	ELK R	KOOTENAY R	4915/11505	5850	12300	3560	NIL	1350	140	F	-
KS17	ELK R	KOOTENAY R	4913/11507	5700	12000	3400	NIL	1720	110	F	-

See p.9 for notes

LIST OF SITES WITH 6 MO FLOW < 30000 HP

Sites Listed Alphabetically - Province Wide

Ref. No.	Stream Name	Tributary to:	Lat/Long	Min HP using ordinary minimum flows	Max HP using ordinary 6 mo flows	Power using firm regulated flow	Storage	Drainage	Head	Suitability	BCWRB Report No.
KS14	ELK R	KOOTENAY R	4945/11453	3070	6470	7570	72000	890	200	F	-
DS31	ELLERSILE L	SPILLER CH	5231/12800	1640	5300	8700	208000	111	90	F	240
DS29	ELLERSILE L	SPILLER CH	5231/12800	990	3120	5100	126500	68	87	F	240
FS11	EMORY CK	FRASER R	4930/12129	1250	4700	940	NIL	19	1150		
CS14	FALLS CK	FILTER CK	5039/12412	360	1200	110	NIL	4.2	1000	P	-
AS12	FALLS R	LORD R	5108/12334	590	2730	320	-	44	500		
AS4	FARBUS L	PONDOSY L	5313/12656	140	420	1000	AMPLE	20	155	F	550
GS2	FINDLAY CK	KOOTENAY R	5008/11558	750	1180	420	NIL	277	100	P	-
GS3	FINDLAY CK	KOOTENAY R	5008/11553	3300	5300	1830	NIL	300	402	F	-
BFF2	FOCH CK	FOCH INLET	5347/12908	4000	12700	21000	35000	18	1400	F	253
KS3	FORDING R	ELK RIVER	5001/11453	410	870	365	NIL	135	100	P	-
AS11	FORSTER CK	COLUMBIA R	5035/11605	1100	2150	1100	NIL	190	260	P	260
ES5	FORSTHALL	UPPER ARROW L	5022/11757	1300	2200	650	NIL	100	480	P	-
AS11	FOURTH OF JULY	ATLIN LAKE	5940/13339	82	400	400	1600	82	400	F	-
AS1A	FRASER R	GEORGIA ST	5300/11904	1770	9800	3650	45000	640	80	F	967,303
AS1	FRASER R	GEORGIA ST	5300/11904	7500	18700	17000	45000	640	500	F	967
AS2	FRASER R	GEORGIA ST	5259/11919	4000	9800	8000	45000	850	200	F	967
AS1B	FRASER R	GEORGIA ST	5300/11905	5000	27300	5510	15800	680	210	F	303
AS13	FRASER R	GEORGIA ST	5322/11959	-	-	-	1856000	1685	-	F	-
HS17	FRY CREEK	KOOTENAY L	5004/11748	8360	16700	5090	NIL	230	800	P	-
BECS2	FULTON R	BABINE L	5448/12614	1900	4750	14500	230000	525	284	G	BCPC
CS2	FULTON R	BABINE LAKE	5448/12614	1000	2500	3900	15000	525	150	G	317
AS7	GENESEE CK	OWIKENO LAKE	5137/12636	745	3350	3500	7380	10	820	F	328
HS10	GLACIER CK	DUNCAN R	5018/11653	2040	4090	1230	NIL	100	450	P	-
CS5	GLACIER R	BEAR RIVER	5559/12956	440	1200	220	NIL	20	300	P	-
CS9	GOAT CK	TOBA RIVER	5035/12349	450	1500	150	NIL	10	550	P	-
CS1	GOLD R	MUCHALAT I	4944/12556	3300	10350	5200		385	100	P	339
DS7	GOLDSTREAM	COLUMBIA R	5140/11836	3900	13200	22000	300000	345	210	F	-
BS8	GOOSEGRASS	COLUMBIA R	5201/11815	260	590	118	NIL	9	1300	P	-
AS3	GORDON R	ST OF JUAN DE FUCA	4840/12428	820	5700	250	NIL	86	210	P	-
AS10	GOT R	FRASER R	5324/12046	200	659	115	NIL	115	75	P	659
GS2	GREEN R	LILLOOET R	5017/12251	2900	12050	1530	NIL	305	177		
BS22	GT CENT LAKE	STAMP R	4918/12500	4200	20000	30500	480000	177	165	F	96,810,807
ES3	GUN CREEK	BRIDGE R	5053/12250	4100	10500	12700	42000	210	758	F	
HS7	GURNEY CK	PITT LAKE	4929/12231	1660	5700	690	NIL	14.6	630		
HS15	HAMILL CK	DUNCAN R	5014/11751	1090	2180	660	NIL	80	300	P	-
CS3	HARVEY CK	CANOE R	5213/11824	91	150	68	NIL	27	125	P	-
BS12	HASLAM L	LANG CREEK	4952/12430	800	3500	5410	150000	38	350	F	-
LS9	HAYES CK	SIMILKAMEEN R	4935/12025	32	220	32	NIL	227	70	P	754
CS13	HEADWALL CK	FILTER CK	5042/12414	960	3300	330	NIL	39	300	P	-
DS10	HEAKAMIE R	HOMATHKO R	5107/12454	2200	5400	860	NIL	45	200	P	-
A24	HEMP CK	CLEARWATER R	5156/12003	360	780	780	SOME	70	190	F	371
DS11	HOMATHKO R	BUTE INLET	5127/12428	-	-	-	300000	383	-	F	383,384,849,850
CS19	HOMFRAY CK	HOMFRAY CH	5019/12433	955	3950	9150	10000	11	1500	F	376
AS1	HONNA R	SKIDEGATE INLET	5317/13209	320	980	150	-	10	270	F	
ES5	HORETZKY CK	KEMANO R	5333/12755	290	910	180	NIL	20	200	P	-
HS14	HORSEFLY L	HORSEFLY R	5222/12120	-	-	-	216000	161	-	F	-
HS16	HORSEFLY R	QUESNEL L	5218/12120	-	-	-	-	613	-	F	-
HS15	HORSEFLY R	QUESNEL L	5225/12126	2200	8700	7200	1870	1060	150	F	385
HS13	HORSEFLY R	QUESNEL L	5228/12045	710	1770	8200	216000	161	195	F	385
HS11	HORSEFLY R	QUESNEL L	5218/12101	1160	3260	3400	44000	300	150	F	385
AS8A	HORSETHIEF CK	COLUMBIA R	5034/11611	2200	4150	11000	90000	220	435	F	373
HS9	HOWSER CK	DUNCAN R	5028/11653	2110	4220	1270	NIL	160	290	P	-

See p.9 for notes

Sites Listed Alphabetically - Province Wide

Ref. No.	Stream Name	Tributary to:	Lat/Long	Min HP using ordinary minimum flows	Max HP using ordinary 6 mo flows	Power using firm regulated flow	Storage	Drain-age	Head	Suit-ability	BCWRB Report No.
FSS6	HUASKIN L	DRURY INLET	5058/12658	770	2650	3070	30000	50	130	F	386
FS15	HUNTER CK	FRASER R	4921/12134	1080	2200	510	NIL	17	700		
BS1	ICKNA CK	S BENTINCK ARM	5200/12642	1700	5300	430	NIL	65	360	P	-
DS12	ILLECILLEWAET	COLUMBIA R	5110/11747	1950	6500	1300	NIL	130	275	F	-
CS4	ILTASYUKO R	DEAN RIVER	5252/12612	1200	2070	4538	256000	620	60	F	203,204
ES1	INCOMMADLEUX	COLUMBIA R	5047/11740	6600	17000	42500	540000	415	290	F	-
DS30	INGRAM L	SPILLER CH	5237/12802	610	1910	3130	80500	43	84	F	240
AS2	INZIANA R	OWIKENO LAKE	5150/12641	1220	5450	490	NIL	67	200	P	-
HS19	ISAAC R	CARIBOO R	5305/12045	1000	2900	6800	200000	200	100	F	680,675
8CG	ISKUT R	STIKINE R	-	-	-	-	-	3602	1200	-	-
FS1	JESSE CK	DOUGLAS CH	5349/12852	218	690	1500	87000	76	40	F	407
DS9	JEWAKWA R	HOMATHKO R	5107/12454	1800	4500	730	NIL	50	200	P	-
CS11	JIMMIE CK	TOBA RIVER	5036/12401	2300	7600	730	NIL	28	1000	P	-
AS5	KASALKA CK	TAHTSA REACH	5339/12709	550	1650	4000	AMPLE	80	150	F	550
FS4	KENDEL CK	KLEANZA CK	5435/12819	160	480	60	NIL	5	700	P	-
NS3	KETTLE R	COLUMBIA R	4909/11858	910	3840	9800	600000	1590	140	F	-
GS4	KHATADA R	SKEENA R	5412/12932	3370	7910	9700	46000	60	322	F	41,42,416
DS15	KHUTZE R	GRAHAM REACH	5306/12820	490	1550	270	NIL	33	90	P	-
AS24	KICKING HORSE	COLUMBIA R	5117/11650	4800	10600	4000	NIL	720	295	P	421
AS21	KICKING HORSE	COLUMBIA R	5126/11622	900	2450	490	NIL	48	900	P	-
AS23	KICKING HORSE	COLUMBIA R	5111/11634	1290	2820	770	NIL	570	100	P	-
ES3	KILTUISH R	GARDNER C	5319/12827	690	2200	380	NIL	35	120	P	418
BS6	KINSKUCH R	NASS RIVER	5531/12856	410	1500	2600		172	60	P	547
BS23	KITEEN R	CRANBERRY R	5526/12849	-	-	-	-	330	-	F	738,547,548
GS1	KITSUMKALUM R	SKEENA R	5436/12840	10000	30000	80000	1380000	1090	195	F	430
FS3	KLEANZA CK	SKEENA RIVER	5436/12821	320	960	320	NIL	70	100	P	-
DS16	KLEKANE R	GRAHAM REACH	5315/12842	400	1265	220	NIL	20	120	P	431
FS3	KOKISH R	BROUGHTON ST	5030/12730	2800	23000	38000	131000	100	833	F	438
AS5	KOKSILAH R	COWICHAN BAY	4838/12340	-	-	-	NIL	66	-	F	743
GS24	KOOTENAY R	COLUMBIA R	4928/11528	11700	30000	88900	2790000	4600	161	F	-
8FG1	KUMEALON CK	GRENVILLE CH	5352/12957	400	1050	2200	40000	22	150	F	
8FG2	KUMOWDAH	GRENVILLE CH	5333/12933	840	2250	4600	AMPLE	88	80	F	422
BS6	L QUALICUM	GEORGIA ST	4918/12435	1470	6000	6600	17000	54	290	F	667
CS15	L TABA R	TOBA RIVER	5027/12409	2700	7200	1230	NIL	90	250	P	-
DS23	LARD CK	KYNOCH INLET	5244/12747	285	900	154	NIL	13	130	P	477
HS31	LARDEAU R	KOOTENAY L	5029/11713	1400	3400	5100	300000	425	70	F	-
HS33	LARDEAU R	KOOTENAY L	5015/11658	7500	17200	18200	300000	610	220	F	-
HS12	LARDEAU R	TROUT LAKE	5040/11727	440	870	260	NIL	60	160	P	-
HS32	LARDEAU R	KOOTENAY L	5023/11705	3500	8650	10000	300000	580	130	F	-
HS29	LARDEAU R	KOOTENAY L	5031/11717	760	1820	3500	300000	320	50	F	-
HS13	LARDEAU R	TROUT LAKE	5040/11728	2250	4500	1350	NIL	110	450	P	-
JS16	LEMON CK	SLOCAN R	4942/11724	1230	2450	720	NIL	58	465	P	-
AS8B	LILLIAN L	NEAVE CK	5030/11605	1530	3000	7800	90000	8	296	F	373
AS6	LINDEMAN L	BENNETT LAKE	5945/13505	4000	26000	6200000	AMPLE	10	2200	F	573,771,770
DS6	LIZETTE CK	MUSSEL INLET	5255/12809	1100	3400	5600	27000	15	430	F	462
ES12	LOPE CK	KITLOPE R	5304/12731	1170	3600	735	NIL	9	1800	P	428
GS20	LUSSIER R	KOOTENAY R	5007/11534	690	1380	10500	45000	95	270	F	913,914
GS6	MADELINE CK	ECSTALL R	5358/12949	1690	4500	9250	26000	16	885	F	-
AS13	MANHOOD R	CLEARWATER R	5156/12013	2900	9700	20800	648000	1780	213	F	1088
ES7	MARBLE R	QUATSINO SD	5023/12728	3700	22000	22500	519000	54	284	F	487,488
ES4	MARBLE R	QUATSINO SD	5032/12728	1820	11000	18200	441000	195	143	F	487,488
ES6	MARBLE R	QUATSINO SD	5023/12728	-	-	-	519000	195	-	F	487,488
ES3	MARBLE R	ALICE L	5026/12726	820	2500	5600	233000	54	120	F	487,488

See p.9 for notes

Sites Listed Alphabetically - Province Wide

Ref. No.	Stream Name	Tributary to:	Lat/Long	Min HP using ordinary minimum flows	Max HP using ordinary 6 mo flows	Power using firm regulated flow	Storage	Drainage	Head	Suitability	BCWRB Report No.
ES5	MARBLE R	QUATSINO SD	5032/12728	2100	6300	20400	441000	200	160	F	487,488
DS8	MARBLEROCK CK	BUTTLE L	4943/12537	860	2400	860	NIL	4.8	1900	P	-
CS11	MARMOT R	PORTLAND CANAL	5552/13000	1160	3270	580	NIL	40	400	P	-
DS7	MCALPINE CK	MUSSEL INLET	5254/12809	450	1450	1020	5000	11	250	F	513
BS1	MCGREGOR R	FRASER R	5413/12127	2660	11800	2500	NIL	1000	80	P	-
BS2	MCGREGOR R	FRASER R	5413/12127	6000	27000	37500	1139000	1000	182	F	517 to 520
DS18	MCISAAC CK	AALTANASH I	5308/12833	600	1950	336	NIL	10	370	P	521
GS7	MCKNIGHT CK	ECSTALL R	5401/12951	620	1640	2180	8400	13	400	F	-
ES1	MCLEOD R	MCLEOD LAKE	5452/12315	320	700	2100	62000	200	110	F	622
DS19	MCPHERSON CK	MATHESON CH	5238/12810	394	1300	2140	14900	8	310	F	522
AS12	MEDOWSE CK	OWIKENO LAKE	5138/12709	410	1800	180	NIL	9	500	P	490
DS13	MEMEKAY R	SALMON R	5011/12547	1700	5000	680	NIL	78	240	P	-
AS4	MEZIADIN	NASS RIVER	5602/12910	1030	3800	6350	190800	290	90	P	544 to 548
MS3	MISSION CK	OKANAGAN LAKE	4951/11917	910	1600	2400	14000	240	670	F	500,501,502
HS22	MITCHELL R	QUESNEL L	5251/12045	8200	23600	35400	120000	96	1000	F	-
AS14	MONMOUTH CK	SQUAMISH R	4943/12311	510	1530	1530	2100	2.2	1400	F	-
AS14A	MONMOUTH CK	SQUAMISH R	4943/12312	800	2400	2700	2100	2.2	2950	F	-
CS20	MONTROSE CK	FILTER CK	5037/12411	3600	9100	1800	NIL	41	1000	P	-
AS3	MOOSE LAKE	FRASER R	5249/11900	-	-	-	45000	615	-	F	303,507
AS9	MOOSE R	FRASER R	5306/11852	-	-	-	20000	68	-	F	967,303,507
AS5B	MOOSE RIVER	FRASER R	5257/11848	3300	12000	11000	45000	185	600	P	967,303,507
AS4	MOOSE RIVER	FRASER R	5255/11848	1470	5700	5000	45000	190	270	F	507,303,967
AS5A	MOOSE RIVER	FRASER R	5256/11848	2700	10400	9100	45000	190	500	P	303
DS1	MORICE R	BULKLEY R	5412/12655	1670	5060	9550	520000	1540	40	F	-
DS2	MORICE R	BULKLEY R	5410/12725	-	-	-	1284000	780	-	F	69
AS121	MORTHILL R	FRASER R	5341/12030	1970	6200	1140	NIL	490	167	P	-
BS2	MURRAY R	PINE R	5527/12108	600	1300	600	NIL	2050	20	P	622
AS6	MURTLE R	CLEARWATER R	5203/11959	570	1360	2170	340000	490	20	F	-
AS5	MURTLE R	CLEARWATER R	5205/11953	1020	2440	3860	340000	450	40	F	-
AS8	MURTLE R	CLEARWATER R	5202/12004	2140	5120	8120	340000	510	75	F	-
AS21	MURTLE R	CLEARWATER R	5207/11950	-	-	-	330000	440	-	F	1088
AS7	MURTLE R	CLEARWATER R	5203/12004	1000	2380	3780	340000	500	35	F	-
AS9	MURTLE R	CLEARWATER R	5158/12007	3140	7500	11900	340000	510	110	F	-
8LAS5	MURTLE R	CLEARWATER R	5205/11953	6600	15900	29500	330000	450	260	F	BCPC
DS7	MYRA CK	BUTTLE L	4934/12534	830	2000	340	NIL	27	270	P	-
BS1	N THOMPSON	THOMPSON R	5156/11921	3600	10900	1450	NIL	1250	160	P	-
BS15	N THOMPSON	THOMPSON R	5141/11926	4200	12400	32500	230000	1470	155	F	-
AS6	NADEN R	NADEN HARBOUR	5354/13242	820	2540	360	-	70	100	F	
8MFS4	NAHATLATCH R	FRASER R	5000/12132	4250	17000	13300	178500	420	420	F	528
BS35	NAHMINT L	NAHMINT I	4908/12500	1620	10800	15900	107000	54	330	F	527
8HBS35	NAHMINT R	ALBERNI I	4908/12500	1960	13100	22000	252000	54	400	F	527
BS25	NAHMINT R	ALBERNI INLET	4907/12500	-	-	-	107000	54	-	F	527
BS27	NAHMINT R	ALBERNI INLET	4907/12457	650	3650	5350	107000	65	110	F	526
BS26	NAHMINT R	ALBERNI INLET	4907/12500	120	680	1200	107000	54	25	F	526
BS4	NAKONAKE R	SLOKO RIVER	5900/13325	1800	10400	1570000	6814000	178	550	F	573,770,771
BS3	NANAIMO R	NANAIMO BAY	4904/12353	470	3500	5500	160000	249	80	F	707,524
BS2	NANAIMO R	NANAIMO BAY	4904/12401	800	5900	10300	160000	225	150	F	707,524
BS1	NANAIMO R	NANAIMO BAY	4905/12407	-	-	-	160000	140	-	F	707,524
BS3A	NANAIMO R	NANAIMO BAY	4904/12357	945	7000	11000	160000	249	160	F	707
BS4	NANAIMO R	NANAIMO BAY	4904/12353	630	4700	7200	160000	255	105	F	707,524
DS1A	NASCALL R	DEAN CHANNEL	5233/12720	6600	23000	30000	360000	100	315	G	541,542,543
DS3	NATION R	PARSNIP R	5517/12338	4700	10000	27500	470000	2230	144	F	622,552
DS5	NATION R	PARSNIP R	5531/12327	3900	8600	22000	470000	2700	100	F	622,552

See p.9 for notes

Sites Listed Alphabetically - Province Wide

Ref. No.	Stream Name	Tributary to:	Lat/Long	Min HP using ordinary minimum flows	Max HP using ordinary 6 mo flows	Power using firm regulated flow	Storage	Drainage	Head	Suitability	BCWRB Report No.
DS6	NATION R	PARSNIP R	5513/12415	1470	3300	9000	470000	1700	60	F	622,552
DS4	NATION R	PARSNIP R	5525/12337	1350	3000	7300	470000	2626	35	F	622,552
DS2	NATION R	PARSNIP R	5503/12341	3800	8200	11000	470000	2160	120	F	622,552
DS1	NATION R	PARSNIP R	5511/12422	-	-	-	470000	1670	-	F	622,552
CS3	NECHAKO	FRASER R	5356/12315	7300	18000	19000	2423000	10830	40	F	-
BS6	NECLEETSCONAY R	N BENTINCK ARM	5224/12644	790	2400	135	NIL	102	100	P	-
AS8	NEECHANZ R	OWIKENO LAKE	5136/12640	227	1020	90	NIL	125	20	P	-
HS8	NIAGARA	QUESNEL L	5236/12026	1360	3860	450		170	250	P	-
HS7	NIAGARA	QUESNEL L	5243/12028	590	1720	200		129	145	P	-
FS12A	NICOLUM CK	COQUIHALLA R	4922/12102	1490	2730	730	NIL	39	400		
FS6	NILAH CK	ZYMOETZ R	5428/12753	550	1650	280	NIL	12	1000	P	-
FS5	NIMPKISH R	NIMPKISH L	5012/12635	1160	4400	490	NIL	330	40	P	-
8HFS7	NIMPKISH R	BROUGHTON ST	5033/12700	6120	2290	30500	507000	680	102	G	BCPC
FS6	NIMPKISH R	NIMPKISH L	5015/12651	1700	6300	730	NIL	480	40	P	-
FS4	NIMPKISH R	NIMPKISH L	5011/12633	820	3040	350	NIL	185	50	P	-
8HFS8	NIMPKISH R	BROUGHTON ST		-	-	32000	204000		350	G	BCPC
ES7	NOEL CK	CADWALDER CK	5045/12248	400	910	220	-	36	400		
8FBS11	NOOSGULCH	BELLA COOLA R	5226/12626	1260	3080	1575	SOME	45	290	F	BCPC
8FBS10	NUSATSUM	BELLA COOLA R	5223/12628	530	1630	312	1500	106	65	F	BCPC
CS1	OMINECA R	FINLAY R	5602/12413	8200	17600	10900	75000	4500	100	F	-
DS1	ORFORD R	ORFORD BAY	5039/12448	2200	5500	880	NIL	101	120	P	602
AS32	OTTERTAIL R	KICKING HORSE	5119/11631	500	1140	320	NIL	90	250	P	-
ES10	OWYACUMISH CK	GARDNER C	5331/12825	1180	3800	660	NIL	33	220	P	605
FS5	PALLISER R	KOOTENAY R	5031/11538	960	1920	500	NIL	240	176	P	-
DS12	PHILLIPS CK	BUTTLE L	4936/12534	1200	3600	490	NIL	29.3	450	P	-
ES2	PINCHI CK	STUART L	5436/12430	220	400	690	20000	405	80	F	-
DS2	PINE LAKE	SPILLER CHANNEL	5240/12804	430	1350	2220	6000	15	170	F	-
BS1	PINE R	PEACE R	5542/12118	1250	2750	1250	NIL	2160	40	P	622
ES4	PINGSTON CK	UPPER ARROW L	5026/11758	1140	1900	570	NIL	120	350	P	-
DS4	POISON COVE R	POISON COVE	5252/12802	1200	3800	4200	34000	36	200	F	642
AS11	PTARMIGAN CK	FRASER R	5341/12054	590	1920	320	NIL	75	325	P	659
BS7	QUALICUM	GEORGIA ST	4924/12437	410	4500	4800	115000	43	240	F	668
HS1	QUESNEL R	FRASER R	5253/12260	11600	28400	43600	1346000	4650	80	F	672,680,675
HS23	QUESNEL R	FRASER R	5237/12136	10600	26000	42000	1340000	2330	130	F	682,672,678
CS12	RACOON CK	TOBA RIVER	5032/12403	1750	4700	730	NIL	26	620	P	-
LS7	RED CREEK	HAYES CK	4932/12023	540	2400	540	NIL	44	1490	P	-
AS6	REPLENDENT	MOOSE R	5301/11853	-	-	-	14000	60	-	F	967,303,567
AS7	REPLENDENT	MOOSE R	5303/11855	-	-	-	7000	52	-	F	967,303,507
DS27	RIOT CK	KYNOCH INLET	5244/12751	300	950	164	NIL	15	120	P	690
AS18	RUBBLE CK	CHEAKAMUS R	4957/12303	14400	28500	39000	97600	19	3300	F	108
AS10	RUBBLE CR	CHEAKAMUS R	5057/12305	2100	4200	1300	NIL	23	400	P	108
DS1	SAKENICHE R	TAKLA LAKE	5506/12551	1070	2600	4000	96000	380	213	F	-
ES18	SALMO R	PEND D'OREILLE	4902/11719	2400	4000	725	NIL	500	145	P	-
DS11	SALMON R	JOHNSTONE ST	5010/12542	1430	4300	2700	25000	150	105	F	-
AS1	SANDELL R	RIVERS INLET	5133/12730	1900	9150	16500	61000	50	418	F	724
AS6	SANDIFER L	TAHTSA LAKE	5334/12740	580	1700	3850	AMPLE	27	470	F	550,828
BS13	SARITA R	BARKLEY SD	4852/12459	240	1900	2600	42000	35	141	F	735
8FG3	SAUNDERS CK	GRENVILLE CH	5334/12944	230	690	1370	4000	2.5	840	F	736
DS7	SCAR CREEK	HOMATHKO R	5112/12504	7600	18000	3000	NIL	64	650	P	-
AS16	SCOTT-GOLDIE CK	INDIAN ARM	4921/12255	80	230	50	NIL	0.4	1700	P	-
8MFS7	SCUZZY CK	FRASER R	4950/12131	800	3600	430	-	78	188	F	BCPC
FS7	SCUZZY CR	FRASER R	4950/12130	2100	9600	1770	NIL	78	500		
BS22	SEASKINNISH R	NASS R	5517/12903	6400	23000	46500	AMPLE	70	400	F	738,547-8

See p.9 for notes

LIST OF SITES WITH 6 MO FLOW < 30000 HP

Sites Listed Alphabetically - Province Wide

Ref. No.	Stream Name	Tributary to:	Lat/Long	Min HP using ordinary minimum flows	Max HP using ordinary 6 mo flows	Power using firm regulated flow	Storage	Drain-age	Head	Suit-ability	BCWRB Report No.
BS10A	SECHELT CK	JERVIS INLET	4952/12430	180	590	2800	2160	1.7	1500	F	-
BS10	SECHELT CK	JERVIS KNLET	4941/12324	1300	4100	1900	2160	30	600	F	739
ES6	SEEKWYAKIN CK	KEMANO R	5331/12758	520	1640	330	NIL	120	60	P	-
ES5	SETON R	SETON LAKE	5042/12213	890	1260	2700	100000	310	75		
FS8	SEYMOUR R	SEYMOUR I	5112/12640	2400	8300	1100	NIL	740	140	P	740
GS3	SHAMES R	SKEENA R	5426/12855	610	1530	270	NIL	30	375	P	-
AS2	SHAWNIGAN L	SHAWNIGAN CK	4838/12340	0	600	2690	13800	28	370	F	743,744
AS5	SHEEMAHANT	OWIKENO LAKE	5149/12624	870	3930	350	NIL	240	40	P	-
AS6	SHEEMAHANT R	OWIKENO LAKE	5148/12624	1090	4900	440	NIL	240	50	P	-
DS4	SHEPHERD CK	RALPH R	4937/12531	450	1360	180	NIL	20	250	P	-
FS9	SHUSHMARTIE R	COLETAS CH	5049/12751	300	1000	100	NIL	24	150	P	-
CS2	SHUSWAP R	SHUSWAP LAKE	-	350	6300	2600	200000	786	77	G	748
CS1	SHUSWAP R	MABEL LAKE	5021/11832	220	3200	6350	200000	440	70	G	748
FS14	SILVERHOPE CK	FRASER R	4919/12124	8800	13900	7900	NIL	95	1020		
BS13	SILVERWOLF CK	KITSAULT R	5542/12931	270	820	80	NIL	4	750	P	-
FS5	SIM CREEK	KNIGHT INLET	5103/12539	5500	14000	2780	NIL	111	305	P	751
LS19	SIMILKAMEEN R	OKANAGAN R	4921/12032	1420	7650	5450	146000	600	200	F	-
LS2	SIMILKAMEEN R	OKANAGAN R	4913/11957	1450	2200	12300	660000	2880	80	F	754
LS2	SIMILKAMEEN R	OKANAGAN R	4910/12034	560	3000	2600	98000	430	110	F	-
LS17	SIMILKAMEEN R	OKANAGAN R	4906/12039	290	1550	2300	73000	144	170	F	-
LS3A	SIMILKAMEEN R	OKANAGAN R	4926/12016	4900	25500	20000	431000	2060	200	F	-
LS18	SIMILKAMEEN R	OKANAGAN R	4909/12035	250	1300	2200	128000	190	110	F	-
FS9	SIWASH CK	FRASER R	4934/12123	910	2090	270	NIL	26	1000		
BS3	SKEENA R	HECATE ST	5552/12754	4000	12700	2070	NIL	4380	40	F	-
BS1	SKEENA R	HECATE ST	5617/12748	4180	13360	2180	NIL	3680	50	F	-
BS2	SKEENA R	HECATE ST	5606/12759	3080	9840	1600	NIL	3890	35	F	-
CS5	SKOWQUILTZ R	DEAN CHANNEL	5237/12712	2260	9400	1130	NIL	90	230	P	-
JS19	SLOCAN R	KOOTENAY R	4926/11733	2950	4800	1270	NIL	1300	50	P	-
BS2	SLOKO RIVER	NAKINA RIVER	5906/13341	1450	10000	1400000	6814000	160	500	P	573,770,771
BS3	SLOKO RIVER	NAKINA RIVER	5906/13342	3200	20800	3100000	6814000	160	1090	F	573,770,771
BS1	SLOKO RIVER	NAKINA RIVER	5906/13340	440	2850	4100	AMPLE	160	150	P	573,770,771
GS3	SLOLLICUM	HARRISON L	4924/12206	340	2040	230	NIL	3	2500		
ES8	SMITH R	LIARD R	5934/12628	8700	10300	14000	80000	1490	240	F	-
DS3	SMASS LAKE	SPILLER CHANNEL	5233/12807	390	1250	2070	17100	9	265	F	-
BFBS13	SNOOTLI CK	BELLA COOLA R	5220/12636	292	880	230	PONDAGE	22	170	F	BCPC
DS6	SOARDS CK	COLUMBIA R	5201/11836	670	2180	460	NIL	62	200	P	-
BS24	SOMASS R	ALBERNI INLET	4917/12455	970	4550	3900	624000	505	15	F	807,808
BS23	SPROAT L	SPROAT R	4917/12455	815	3800	12000	624000	128	50	F	96,807,796
FS8	SPUZZUM CK	FRASER R	4940/12131	4300	19000	3500	NIL	65	1200		
GS7	ST MARY R	KOOTENAY R	4938/11559	3600	7350	20600	480000	740	180	F	-
GS6	ST MARY R	KOOTENAY R	4937/11610	1900	3800	12300	480000	570	110	F	-
GS9	ST MARY R	KOOTENAY R	4935/11548	2140	4270	11800	480000	950	100	F	-
GS8	ST MARY R	KOOTENAY R	4936/11552	3000	6000	16400	480000	940	140	F	-
FS3	STAFFORD R	LOUGHBOROUGH I	5044/12529	7100	14300	18750	106000	89	296	F	809
BS21	STAMP R	SOMASS R	4920/12455	4330	14400	20300	480000	336	110	F	810,808
BS20	STAMP R	SOMASS R	4918/12500	1270	6000	9250	AMPLE	177	50	F	96
FS6	STATLU CK	CHEHALIS R	4924/12206	280	1680	170	NIL	10	615		
AS11	STAWAMUS R	HOWE SD	4941/12305	1400	4000	730	NIL	14	800	P	-
BFG7	STELLA CK	GRENVILLE CH	5337/12945	380	1000	2040	15000	9	345	F	804
BS1	STELLKO R	NECHAKO R	5400/12500	3300	4700	10000	440000	1500	150	F	806
ES4	STUART R	NECHAKO R	5403/12335	3000	5700	7100	1120000	6000	25	F	-
ES5	STUART R	NECHAKO R	5425/12416	-	-	-	1983000	5400	-	F	28,29,811,812
ES3	STUART R	NECHAKO R	5419/12415	2280	4340	5390	1120000	5400	19	F	-

See p.9 for notes

Sites Listed Alphabetically · Province Wide

Ref. No.	Stream Name	Tributary to:	Lat/Long	Min HP using ordinary minimum flows	Max HP using ordinary 6 mo flows	Power using firm regulated flow	Storage	Drain-age	Head	Suit-ability	BCWRB Report No.
BS32	SUASAW CK	GRAPPLER I	4850/12506	9	65	140	4000	1.6	120	F	-
CS10	SUMMIT CK	TOBA RIVER	5037/12350	450	1550	180	NIL	5.7	1000	P	-
CS12	SUMMIT L	BOWSER RIVER	5614/13005	600	2200	2700	10000	25	600	P	-
AS3	SUREL L	EUTSUK L	5320/12709	200	615	1360	AMPLE	30	150	F	550
AS8	SWIFT CUR. CK	FRASER R	5301/11917	440	1580	270	NIL	70	300	P	-
ES6	SWIFT R	COTTONWOOD R	5250/12149	4100	8200	3370		185	1000	F	-
ES1	TACHIE R	STUART L	5447/12453	2000	4200	6100	1360000	3700	25	F	-
CS17	TAHUMMING R	TOBA INLET	5030/12425	3800	10300	7800	16900	98	330	F	829,830
BS2	TALEOMEI R	S BENTINCK ARM	5201/12639	860	2660	210	NIL	180	65	P	-
BS6	TANZILLA R	STIKINE ST	5806/13045	10000	20000	100000	AMPLE	720	625	F	548
8MAS2	TASEKO L	TASEKO R	5122/12336	-	-	-	640000	690	NIL	F	BCPC
8MAS2A	TASEKO R	CHILCOTIN R	5124/12337	-	-	-	640000	700	NIL	F	BCPC
BS5	TASTQUAN CK	BELLA COOLA R	5221/12645	650	2000	116	NIL	104	800	P	-
DS6	THELWOOD CK	BUTTLE L	4931/12536	1530	3700	4900	7950	11.2	1200	F	-
8FBS12	THORSEN CK	BELLA COOLA R	5221/12643	340	1060	475	PONDAGE	30	150	F	BCPC
GS9	THULME R	WORK CHANNEL	5429/12959	1660	5440	2580	6000	30	315	P	-
CS6	TOBA RIVER	TOBA INLET	5034/12348	960	3200	340	NIL	22	530	P	-
CS8	TOBA RIVER	TOBA INLET	5036/12351	250	830	80	NIL	44	70	P	-
CS7	TOBA RIVER	TOBA INLET	5035/12349	950	3100	290	NIL	32	360	P	-
AS4	TOBY CK	COLUMBIA R	5030/11611	4400	8400	4400	NIL	240	800	F	837
ES1	TRIUMPH R	GARDNER C	5326/12841	540	1740	800	56000	30	110	F	844
ES2	TRIUMPH R	GARDNER C	5326/12841	334	1075	525	5600	30	68	F	844
LS21	TULAMEEN R	SIMILKAMEEN R	4932/12050	350	1400	930	12000	225	170	F	-
8FBS3	TURNER R	ATNARKO R	5217/12545	4540	18000	18000	AMPLE	61	2000	F	BCPC
DS1	TUYA R	STIKINE ST	5807/13050	-	-	-	-	1300	-	F	548
DS2	TWENTY-TWO MILE CK	SOUTHGATE R	5055/12425	1300	3200	550	NIL	7	1000	P	-
8HCS3	UCONA R	GOLD R	4944/12556	5700	14000	23600	AMPLE	68	650	G	BCPC
CS2	UCONA R	GOLD RIVER	4944/12526	2900	7700	18600		22	1100	F	339
8HCS2	UCONA R	GOLD R	4944/12556	2580	6850	13400	AMPLE	22	980	G	BCPC
BS9	UNION CK	UNION INLET	5440/13016	860	4900	7000	AMPLE	22	380	F	860,662
DS6	UNNAMED R	HOMATHKO R	5114/12459	1100	2700	440	NIL	20	300	P	-
ES4	UNNAMED R	GARDNER C	5316/12758	155	470	90	NIL	21	100	P	-
DSS5	UNNAMED R	MUSSEL INLET	5257/12800	630	1980	3300	38200	20	188	F	511
DS1	UNUK R	BURROUGHS BAY	5623/13042	4600	13000	2600	SOME	590	95	P	859
DS3	UNUK R	BURROUGHS BAY	5620/13042	4900	13500	4900	SOME	600	100	P	859
DS2	UNUK R	BURROUGHS BAY	5620/13042	6100	17000	6100	SOME	600	125	F	859
BS7	VANCOUVER R	JERVIS INLET	4940/12332	1600	5000	820	NIL	61	300	P	874
BS19	VIEW LAKE	GT CENT. LAKE	4922/12520	460	2000	1960	8160	4.2	720	F	883
ES7	WACHWAS CK	KEMANO R	5330/12759	410	1200	240	NIL	21	265	P	-
FS4	WAHASH CK	KNIGHT INLET	5059/12529	4300	10700	2170	NIL	51	470	P	901
GSS5	WEST ROAD R	FRASER R	5317/12308	3560	11670	6750	25000	4440	135	F	902,906
GS6A	WEST ROAD R	FRASER R	5317/12301	5150	17000	11300	52500	4530	192	F	902,906
GS7	WEST ROAD R	FRASER R	5318/12255	3600	12000	7700	46000	4630	133	F	902,906
GS6	WEST ROAD R	FRASER R	5317/12300	4400	14400	8740	76000	4530	163	F	902,906
DS20	WHALEN CK	WHALE CH	5312/12846	2150	6800	11000	64000	35	370	F	909
FS9	WHITE R	KOOTENAY R	5010/11526	1130	2260	4200	54000	360	115	F	913.914
FS8	WHITE R	KOOTENAY R	5010/11526	-	-	-	54000	360	NIL	F	913,914
FS10	WHITE R	KOOTENAY R	5013/11527	460	915	1530	54000	420	40	F	913,914
DS14	WHITE RIVER	SALMON R	5016/12556	3540	10600	5500	10000	130	300	F	-
HS9	WIDGEON CK	PITT LAKE	4925/12238	980	3460	4000	15000	13.5	400		
KS12	WIGWAM R	ELK RIVER	4915/11502	340	1200	340	NIL	310	60	P	-
KS11	WIGWAM R	ELK RIVER	4916/11502	820	1910	550	NIL	300	100	P	-
BS5	WILLOUGHBY CK	NELSON RIVER	5556/12520	510	2050	143		60	225	P	-

See p.9 for notes

Sites Listed Alphabetically - Province Wide

Ref. No.	Stream Name	Tributary to:	Lat/Long	Min HP using ordinary minimum flows	Max HP using ordinary 6 mo flows	Power using firm regulated flow	Storage	Drain-age	Head	Suit-ability	BCWRB Report No.
DS13	WILLOW R	FRASER R	5333/12159	-	-	-	22000	50	-	F	61,926
DS17	WILLOW R	FRASER R	5355/12206	1900	3250	7800	500000	1300	46	F	61
DS14	WILLOW R	FRASER R	5328/12159	-	-	-	20000	140	-	F	61,926
DS7	WILLOW R	FRASER R	5402/12222	4000	8000	9800	155000	1140	156	F	61,925,926
DS16	WILLOW R	FRASER R	5354/12216	-	-	-	60000	950	-	F	61
DS6	WILLOW R	FRASER R	5354/12226	4500	9000	5730	44000	950	206	P	61,925,926
DS15	WILLOW R	FRASER R	5402/12222	5100	10500	48500	663000	1140	200	F	61
JS12	WILSON CK	SLOCAN L	5002/11723	940	1900	580	NIL	260	80	P	-
JS11	WILSON CK	SLOCAN L	5006/11723	1050	2100	640	NIL	230	100	P	-
LS8	WOLFE CK	SIMILKAMEEN R	4928/12019	16	89	89	AMPLE	80	70	F	754
DS9	WOLFE R	BUTTLE L	4946/12538	1050	3200	410	NIL	66	175	P	-
CS4	WOOD R	COLUMBIA R	5209/11822	2680	9110	1210	NIL	356	278	P	-
AS2	YAKOUN R	MASSET INLET	5332/13208	890	2730	410	-	150	50	F	
FS10	YALE CK	FRASER R	4935/12127	410	3400	270	NIL	14	900		
BFF5	YEAST CK	SUE CHANNEL	5341/12901	65	196	43	0	11	80	P	928
AS28	YOHO R	KICKING HORSE	5129/11628	590	1730	320	NIL	60	500	P	-
ES11	ZEBALLOS R	ZEBALLOS I	5004/12647	450	2600	950	3300	75	95	P	930,932
ES10	ZEBALLOS R	ZEBALLOS I	5004/12647	200	1150	250	SOME	16	200	P	930,932
	ZYMOETZ R	SKEENA R	5433/12828	2700	6800	1200	SOME	1200	42	F	933

Notes

1. The listings are adapted from the B.C. Water Resources Branch list compiled by Earl D. Anthony in 1963.

2. Data is partial for the Lower North Coast, Thompson River, Lower Fraser River, Queen Charlotte Islands and Upper Liard River.

3. The original listing of about 550 sites has been reduced to those sites roughly fitting the definition of small hydro, using "Max HP using ordinary 6 month flows as a guideline. All sites less than 30,000 HP are listed.

4. Site suitability (G,F,P) is based on a preliminary assessment. Final suitability is subject to prevailing economics and a more detailed investigation.

5. Storage is in acre-feet.
Head is in feet.

8. HYDROLOGICAL ASSESSMENTS LISTINGS

Limitations of space prevent a comprehensive listing of hydrology information relevant to small hydro, but such information is readily obtainable from the Water Survey of Canada and in the forthcoming Report entitled **"Hydrologic Design Methodologies for Small Scale Hydro at Ungauged Sites"**. This section provides information to assist a project developer in getting started by listing the source of information. Table 8.1 lists the studies and projects of this report where hydrological information is available, while Tables 8.2.1 through 8.2.4 list and provide examples of typical information available through the Water Survey of Canada. Further information is provided in Section 2.7.

Ref. No.	Name	Location	Hydrology ↓	Consult
29	STRYEN CR	5016/12137	1	Q
42	GRANT LAKE CR		1	Q
70	TENNENT CR	4935/12539	2	
94	HILLABY CR		1	Q
86	CASPER CR		1	Q
92	CHERRY CR		1	Q
96	MCKIRDY CR		1	Q
D1	COLEMAN CR	4859/12445	2	C1
D2	SURPRISE CR	5605/12920	2	C1
D3	GOSSE CR	5040/12540	2	C1
D5	KICKING HORSE R	5125/11630	3	C1
D6	CHESLATTA R	5345/12500	3	C1
D7	NANIKA R	5355/12725	3	C1
D9		4930/12630	2	C1
E1	LAKE 1	5234/12739	1	C1
E2	LAKE 2	5225/12732	1	C1
E3	LAKE 3	5227/12722	1	C1
E4	LAKE 4	5229/12728	1	C1
E5	LINK LAKE	5220/12741	23	C1
E6	SUGAR LAKE	5018/11849	13	C1
100	VICTORIA L	5024/12726	3	Q
D10	HASTY CR	4955/11725	2	C1
D11	SUNSHINE CR	4910/12250	2	C1
D12	STONY CR	5035/12240	2	C1
D13	LENA CR		2	C4
D15			3	C4
D19	VOGEL CR	5057/12612	1	C6
D20	THORSEN CR	5220/12640	2	C6
D21	EBERTS CR	5150/12751	2	C6
D22	CLAYTON FALLS CR	5222/12651	3	C6
D23	BARON L	5237/12832	3	C6
D24	MCKAY CR	5003/12722	2	C7
D25	MCKAY CR	5003/12722	2	C7
D26	MCKAY CR	5003/12722	2	C7
D27	NICKNAQUEET R	5140/12715	2	C7
D28	HAZARD CR	4850/12440	2	C7
D29	GOLDSTREAM R	5147/11822	3	C7
D30	BUGABOO CR	5045/11645	2	C7
D31	VOWELL CR	5055/11655	2	C7
D32	ILLECILLAWAET R	5048/11804	2	C7
D33	SURPRISE L		2	C8
D34	COVER & LUTES CR	4952/12648	3	C8
D35	FRANK/ERNS/BASS CR		1	C8
D36	CAMP CR		1	C8
D37	SARITA R	4853/12500	3	C9
D38	WALKER L	5216/12753	2	C9
D39	A B C D LAKES	5207/12754	2	C9
E10	PINE CR	5940/13330	3	C2
E11	VOGEL CR	5100/12615	2	C2
E12	COTTONWOOD R	5905/13010	3	C2
E13	THELWOOD CR	4935/12540	2	C2
E14	PHILLIPS CR	4901/11502	2	C2
E15	COQUIHALLA R	4926/12117	2	C2
E16	NAKA CR	4928/12625	2	C2
E17	ALBERT CR	5108/11751	2	C2
E18	MUNRO CR	4920/12240	2	C2
E19	LUTES CR	4954/12656	1	C2
E20	PEGATTEN CR	5038/12759	1	C2
E21	CARPENTER/CODY CR	4958/12713	2	C2
E23	CEDAR(BAIKIE) CR		2	C3
E24	TOAD RIVER	5349/12540	1	C4
E25			1	C4
E26			2	C4
E27			1	C4
E28	BOTANIE CR		3	C4
E29			3	C4
E30	HELLROARER CR	4935/11855	2	C5
E31	CACOOHTIN CR	5225/12620	1	C6
E31	THORSEN CR	5220/12640	1	C6
E31	YOUNG CR	5225/12550	1	C6
E31	NOOMST CR	5225/12615	1	C6
E31	SNOOTLI CR	5220/12635	1	C6
E31	NOOSGULCH CR	5225/12625	1	C6
E31	BURNT BRIDGE CR	5225/12615	1	C6
E31	NOOKLIKONNIK CR	5225/12633	1	C6
E31	ATNARKO R	5210/12540	1	C6
E31	HOTNARKO R	5225/12545	1	C6
E32	VOGEL CR	5057/12612	1	C6
E33	NICKNAQUEET	5140/12714	1	C6
E33	NICKNAQUEET	5140/12714	1	C6
E33	UNNAMED	5140/12714	1	C6
E34	TURNAGAIN R	5840/12808	1	C6
E34	TURNAGAIN R	5829/12848	1	C6
E34	TURNAGAIN R	5830/12846	1	C6
E35	BARON L	5237/12832	2	C6
E36	CELISTA CR	5115/11900	3	C6
E38	ILLECILLEWAET R	5108/11751	3	C7
E39	KITSAULT R	5540/12930	2	C7
E40	BARON L	5230/12830	2	C7
E41	COTTONWOOD R	59/130	3	C7
E45	BILLY CR	5351/13025	1	10
E46	KILPATRICK L	5348/13011	1	10
E48	VARIOUS	ALL B C	1	
E49	VARIOUS	ALL B C	1	

TABLE 8.2.1
Hydrometric Stations in British Columbia

ALPHABETICAL INDEX / INDEX ALPHABETIQUE

NAME	STATION NO.	PAGE
ACTIVE CREEK NEAR YMIR	08NE027	1
ADAMS RIVER NEAR SQUILAX	08LD001	2
ADSETT CREEK AT KILOMETRE 386.0 ALASKA HIGHW	10CD005	3
AHRENS BROOK NEAR NELSON	08NJ116	4
AINSLIE CREEK NEAR BOSTON BAR	08MF033	4
AIREY CREEK NEAR NELSON	08NJ106	4
AIRPORT CREEK NEAR BRILLIANT	08NJ148	5
AIRY CREEK ABOVE DIVERSIONS	08NJ159	5
AIRY CREEK NEAR PASSMORE	08NJ042	5
AKIE RIVER NEAR THE 760 m CONTOUR	07EA007	6
AKOKLI CREEK NEAR BOSWELL	08NH102	6
AKOLKOLEX RIVER NEAR REVELSTOKE	08ND001	6
ALBERT RIVER AT 1310 m CONTOUR	08NF005	7
ALCES RIVER AT 22ND BASE LINE	07FB004	7
ALCES RIVER AT SECTION 20	07FB005	8
ALIX CREEK AT OUTLET OF ALIX LAKES	08KE023	8
ALKALI CREEK NEAR KAMLOOPS	08LF041	8
ALLISON BROOK NEAR BRILLIANT	08NE059	8
ALLISON CREEK ABOVE SUMMERS CREEK	08NL056	9
ALLISON CREEK AT OUTLET OF ALLISON LAKE	08NL057	9
ALLISON CREEK NEAR PRINCETON	08NL012	10
ALOUETTE RIVER AT OUTLET OF ALOUETTE LAKE	08MH014	11
ALOUETTE RIVER NEAR HANEY	08MH005	11
AMBUSTEN CREEK NEAR THE MOUTH	08LF081	12
AMERICAN CREEK NEAR HOPE	08MF022	12
AMERICAN CREEK NEAR STEWART	08DC001	13
ANAHIM CREEK NEAR ALEXIS CREEK	08MB002	13
ANDERSON CREEK ABOVE DIVERSIONS	08LF084	13
ANDERSON CREEK AT THE MOUTH	08NH104	14
ANDERSON CREEK NEAR NELSON	08NJ130	15
ANDERSON RIVER NEAR BOSTON BAR	08MF001	15
ANDREAS SPRING NEAR TRAIL	08NE061	15
ANGUS CREEK NEAR CRANBROOK	08NG036	16
ANGUS CREEK NEAR WINLAW	08NJ051	16
ANNIS DITCH NEAR ROSEDALE	08MF049	17
ANMORE CREEK NEAR THE MOUTH	08GA058	17
APEX CREEK NEAR THE MOUTH	08NE115	17
AQUEDUCT CREEK NEAR NATAL	08NK013	17
ARCHIBALD BROOK NEAR KIMBERLEY	08NG045	18
ARGENTA CREEK NEAR ARGENTA	08NH061	18
ARNOLD CREEK NEAR BAKER	08NG037	19
ARROW CREEK NEAR ERICKSON	08NH084	19
ARROW RESERVOIR OUTFLOW	08NE126	20
ARTHUR CREEK NEAR ROSEBERY	08NJ117	21
ASH RIVER BELOW MORAN CREEK	08HB023	21
ASH RIVER NEAR GREAT CENTRAL	08HB018	22
ASHNOLA RIVER ABOVE YOUNG CREEK	08NL072	22
ASHNOLA RIVER NEAR KEREMEOS	08NL004	23
ASP CREEK NEAR PRINCETON	08NL015	24
ATHOL CREEK NEAR KASLO	08NH047	25
ATLIN RIVER NEAR ATLIN	09AA006	25
ATNARKO RIVER NEAR THE MOUTH	08FB006	26
AUSTRALIAN CREEK AT AUSTRALIAN	08KE005	27
AVERILL CREEK NEAR DUNCAN	08HA015	27
AVOLA CREEK(SOUTH FORK)NEAR AVOLA	08LB079	28
AXE CREEK AT LOT 761	08LG051	28
AYLMER CREEK (NORTH FORK) NEAR QUEENS BAY	08NH037	28
AYLMER CREEK (SOUTH FORK) NEAR QUEENS BAY	08NH036	29
AYLMER CREEK NEAR QUEENS BAY	08NH038	29
B.X. CREEK ABOVE VERNON INTAKE	08NM020	30
B.X. CREEK BELOW SWAN LAKE CONTROL DAM	08NM123	31
BABINE RIVER AT BABINE	08EC001	32
BABINE RIVER AT OUTLET OF NILKITKWA LAKE	08EC013	33
BADGER CREEK NEAR HEFFLEY CREEK	08LB061	34
BADGER CREEK NEAR LOUIS CREEK	08LB062	34
BAEZAEKO RIVER AT LOT 10262	08KG003	35
BAGLEY CREEK NEAR BALFOUR	08NJ161	35
BAKER CREEK AT QUESNEL	08KE016	36
BALFOUR CREEK NEAR ROBSON	08NE082	36
BAMBRICK CREEK NEAR BIG CREEK	08MB001	37
BANGOR BROOK NEAR ROSSLAND	08NE060	37
BARCLAY CREEK NEAR FRUITVALE	08NE064	37
BARLOW CREEK NEAR QUESNEL	08KH018	38
BARNARD CREEK NEAR ASHCROFT	08LF067	38
BARNES CREEK ABOVE PENSE LAKE DIVERSION	08LF070	38
BARNES CREEK NEAR ASHCROFT	08LF001	39
BARNES CREEK NEAR NEEDLES	08NE077	40
BARRIE CREEK NEAR CASTLEGAR	08NE100	41
BARRIERE RIVER (EAST FORK) NEAR BARRIERE	08LB021	41
BARRIERE RIVER AT THE MOUTH	08LB020	42
BARRIERE RIVER B.C.E.R. FLUME NEAR BARRIERE	08LB052	43
BARRIERE RIVER BELOW LEE CREEK	[illegible]	43
BARRIERE RIVER BELOW SPRAGUE CREEK	08LB069	44
BARRIERE RIVER NEAR BARRIERE (AT DAM)	08LB051	44
BARRON CREEK NEAR BLOEDEL	08HD013	45
BATH CREEK NEAR FRUITVALE	08NE025	45
BEAR CREEK AT THE MOUTH	08LG064	45
BEAR CREEK ABOVE FALLS NEAR TRAIL	08NE086	46
BEAR CREEK AT SOMERS ROAD NEAR ALBERNI	08HB073	46
BEAR CREEK NEAR TRAIL	08NE050	46
BEAR RIVER ABOVE BITTER CREEK	08DC006	46
BEARD CREEK NEAR PARSON	08NA036	47
BEATON CREEK NEAR BEATON	08NE008	48
BEATON CREEK NEAR KAMLOOPS	08LF008	48
BEATTON RIVER NEAR FORT ST. JOHN	07FC001	49
BEAVER CREEK ABOVE 160 m CONTOUR	08HB050	49
BEAVER CREEK AT FRUITVALE	08NE042	50
BEAVER CREEK AT OUTLET OF BEAVER LAKE	08KH021	50
BEAVER CREEK AT THE MOUTH	08NE106	50
BEAVER CREEK NEAR ALBERNI	08HB036	51
BEAVER RIVER NEAR ROGERS	08NB003	51
BEAVERDELL CREEK NEAR BEAVERDELL	08NN027	52
BEAVERLEY CREEK AT OUTLET OF NADSILNICH LAKE	08JC016	52
BEAVERLEY CREEK NEAR THE MOUTH	08JC014	52
BELGO CREEK BELOW HILDA CREEK	08NM232	53
BELGO CREEK NEAR RUTLAND	08NM017	53
BELGO CREEK NEAR THE MOUTH	08NM225	53
BELLA COOLA RIVER ABOVE BURNT BRIDGE CREEK	08FB007	54
BELLA COOLA RIVER AT BELLA COOLA	08FB001	54
BELLA COOLA RIVER AT HAGENSBORG	08FB006	55
BELLA COOLA RIVER NEAR HAGENSBORG	08FB002	55
BELLEVUE CREEK AT THE MOUTH	08NM156	56
BELLEVUE CREEK NEAR OKANAGAN MISSION	08NM035	57
BENSON RIVER NEAR PORT ALICE	08HE003	57
BESSETTE CREEK ABOVE BEAVERJACK CREEK	08LC039	58
BESSETTE CREEK ABOVE LUMBY LAGOON OUTFALL	08LC042	58
BESSETTE CREEK NEAR LUMBY	08LC005	59
BETHSAIDA CREEK ABOVE HIGHLAND VALLEY ROAD	[illegible]	60
BIG BAR CREEK BELOW KOSTERING CREEK	08MD027	60
BIG BAR CREEK NEAR JESMOND	08MD011	60
BIG CREEK ABOVE GROUNDHOG CREEK	08MB004	61
BIG CREEK BELOW GRAVEYARD CREEK	08MB007	61
BIG FALLS RIVER NEAR PORT ESSINGTON	08EG002	62
BIG SHEEP CREEK NEAR ROSSLAND	08NE039	63
BILLINGS CREEK NEAR SHEEP CREEK	08NE054	64
BINGS CREEK (WEST BRANCH) NEAR DUNCAN	08HA042	64
BINGS CREEK AT DRINKWATER ROAD	08HA043	64
BINGS CREEK NEAR DUNCAN	08HA006	64
BINGS CREEK NEAR THE MOUTH	08HA016	65
BIRCHLANDS CREEK NEAR GOLDEN	08NA023	65
BIRD CREEK ABOVE DIVERSION	08NJ170	66
BIRD CREEK NEAR BLEWETT	08NJ022	66
BIRKBECK CREEK NEAR GRAY CREEK	08NH049	66
BIRKENHEAD RIVER AT MOUNT CURRIE	08MG008	67
BJERKNESS CREEK AT MIRROR LAKE	08NH057	67
BLACK CREEK AT STURGESS ROAD	08HD014	68
BLACK CREEK NEAR MIRACLE BEACH PARK	08HD008	68
BLACKHILL CREEK NEAR PAVILION	08MD029	68
BLAEBERRY RIVER ABOVE WILLOWBANK CREEK	08NB012	69
BLAEBERRY RIVER BELOW ENSIGN CREEK	08NB015	69
BLAEBERRY RIVER NEAR GOLDEN	08NB001	70
BLAIR CREEK NEAR FALKLAND (LOWER STATION)	08LE036	70
BLOOMER CREEK NEAR CASTLEGAR	08NE031	71
BLUE RIVER NEAR BLUE RIVER	08LB038	71
BLUE RIVER NEAR THE MOUTH	10AC004	71
BLUEBERRY CREEK AT BLUEBERRY CREEK	08NE043	72
BLUEBERRY CREEK NEAR BLUEBERRY CREEK	08NE073	72
BLUEBERRY RIVER BELOW AITKEN CREEK	07FC003	73
BLURTON CREEK NEAR MARA	08LC025	74
BOLEAN CREEK AT FALKLAND	08LE001	74
BOLEAN CREEK NEAR THE MOUTH	08LE094	75
BONAPARTE RIVER ABOVE CLINTON CREEK	08LF065	75
BONAPARTE RIVER ABOVE LOON CREEK	08LF066	75
BONAPARTE RIVER BELOW CACHE CREEK	08LF002	76
BONAPARTE RIVER NEAR BRIDGE LAKE	08LF062	77
BONAPARTE RIVER NEAR CACHE CREEK	08LF060	77
BOND CREEK NEAR CANYON	08NH056	78
BONE CREEK NEAR BLUE RIVER	08LB077	78
BONEYARD CREEK AT OUTLET OF RAINBOW LAKE	08EG013	78
[illegible] CREEK NEAR MARA	08LC029	78
BONSALL CREEK ABOVE WHITEHOUSE CREEK	08HA022	79
BORLAND CREEK ABOVE EAGLE MEADOWS DAM	08MC026	79
BORLAND CREEK BELOW VALLEY CREEK	08MC039	80
BORLAND CREEK BELOW WISE CREEK	08MC037	80
BORLAND CREEK NEAR 150 MILE HOUSE	08MC001	80
BOSS CREEK ABOVE HENDRIX CREEK	08LA019	81
BOTANIE CREEK NEAR LYTTON	08LF003	81
BOUCHIE CREEK ABOVE BOUCHIE LAKE	08KE020	81
BOUCHIE CREEK BELOW BOUCHIE LAKE	08KE025	82
BOUCHIER CREEK NEAR HATZIC	08MH045	82
BOUGIE CREEK AT KILOMETRE 368 ALASKA HIGHWAY	10CD004	82
BOULDER CREEK NEAR LAIDLAW	08MF002	83
BOUNDARY CREEK AT GREENWOOD	08NN001	83
BOUNDARY CREEK NEAR MIDWAY	08NN011	84
BOUNDARY CREEK NEAR PORTHILL	08NH032	85
BOURKE CREEK NEAR NELSON	08NJ119	86
BOWER CREEK NEAR THE MOUTH	08NA057	87
BOWRON RIVER BELOW BOX CANYON	08KD007	87
BOWRON RIVER NEAR MANSARD	08KD004	88
BOWRON RIVER NEAR WELLS	08KD001	89
BOWSER RIVER AT BERENDON GLACIER	08DA006	90
BOWSER RIVER BELOW BETTY CREEK	08DA008	90
BRADLEY CREEK NEAR FOREST GROVE	08LA022	90
BRANDT CREEK NEAR VANCOUVER (LOWER STATION)	08GA007	91
BRANDT CREEK NEAR VANCOUVER (UPPER STATION)	08GA008	91
BRANDTS CREEK NEAR THE MOUTH	08NM152	91
BRANDYWINE CREEK NEAR BREW	08GA016	92
BRASH CREEK NEAR ENDERBY	08LC004	92
BRIDALVEIL CREEK AT QUEENS BAY	08NH079	93
BRIDGE CREEK AT OUTLET OF HORSE LAKE	08LA020	93
BRIDGE CREEK NEAR 100 MILE HOUSE	08LA005	94
BRIDGE RIVER (SOUTH BRANCH) BELOW BRIDGE GLA	08ME023	95
BRIDGE RIVER AT LAJOIE FALLS	08ME004	95
BRIDGE RIVER BELOW TYAUGHTON CREEK	08ME014	96
BRIDGE RIVER NEAR GOLD BRIDGE	08ME005	97
BRIDGE RIVER NEAR SHALALTH	08ME001	98
BROGAN CREEK NEAR PERRY SIDING	08NJ053	99
BROUSE CREEK (WEST FORK) NEAR NAKUSP	08NE036	99
BROUSE CREEK ABOVE DIVERSIONS	08NE021	99
BROUSE CREEK NEAR NAKUSP (LOWER STATION)	08NE022	100
BROWN CREEK NEAR PORT ESSINGTON	08EG001	100
BROWNS RIVER NEAR COURTENAY	08HB025	101
BRUCE CREEK NEAR WILMER	08NA060	101
BRUNETTE RIVER AT SAPPERTON	08MH026	102
BRUNETTE RIVER NEAR BUENA VISTA	08MH021	103
BUCK CREEK AT THE MOUTH	08EE013	103
BUGABOO CREEK NEAR SPILLIMACHEEN	08NA001	104
BULKLEY RIVER AT QUICK	08EE004	105
BULKLEY RIVER NEAR HAZELTON	08EE001	106
BULKLEY RIVER NEAR HOUSTON	08EE003	107
BULKLEY RIVER NEAR HUBERT	08EE007	108
BULKLEY RIVER NEAR SMITHERS	08EE005	108
BULL CREEK NEAR CRUMP	08NM133	109
BULL RIVER NEAR WARDNER	08NG002	110
BULMAN CREEK AT THE MOUTH	08NM145	112
BURDEN CREEK NEAR CRAWFORD BAY	08NH052	112
BURRELL CREEK ABOVE GLOUCESTER CREEK	08NN023	113
BURWELL CREEK NEAR NORTH VANCOUVER	08GA025	113
CABIN CREEK NEAR THE MOUTH	08NP004	114
CACHE CREEK NEAR CACHE CREEK	08LF004	114
CADDEN CREEK ABOVE DIVERSIONS	08NJ164	115
CADDEN CREEK NEAR ROSEBERY	08NJ118	115
CANILTY CREEK NEAR LOUIS CREEK	08LB001	115
CAI CREEK NEAR BRILLIANT	08NE094	116
CAITHNESS (ROCK) CREEK NEAR GALLOWAY	08NG009	116
CALE CREEK NEAR RED ROCK	08KE015	116
CAMERON RIVER NEAR ALBERNI	08HB019	117
CAMP CREEK AT MOUTH NEAR THIRSK	08NM134	117
CAMP RUN CREEK DIVERSION NEAR CANYON	08NH112	118
CAMP RUN CREEK NEAR CANYON	08NH009	118
CAMPBELL CREEK BELOW SCUITTO CREEK	08LE058	119
CAMPBELL CREEK NEAR BARNHART VALE	08LE002	120
CAMPBELL CREEK NEAR BARNHART VALE (UPPER STA	08LE037	120
CAMPBELL CREEK NEAR MONTE CREEK	08LE003	121
CAMPBELL RIVER ABOVE SAM HILL CREEK	08MH123	121
CAMPBELL RIVER AT OUTLET OF CAMPBELL LAKE	08HD001	121

NAME	STATION NO.	PAGE
CAMPBELL RIVER NEAR CAMPBELL RIVER	08HD003	122
CAMPBELL RIVER NEAR QUINSAM	08HD004	123
CAMPBELL RIVER NEAR WHITE ROCK	08MH059	123
CANDLE CREEK NEAR CLEARWATER STATION	08LA018	124
CANIM CREEK AT OUTLET OF SPOUT LAKE	08LA015	124
CANIM RIVER AT OUTLET OF CANIM LAKE	08LA006	124
CANOE CREEK ABOVE EAST CANOE CREEK	08LE074	125
CANOE CREEK NEAR GANG RANCH	08MD008	125
CANOE CREEK NEAR SALMON ARM	08LE004	126
CANOE RIVER BELOW KIMMEL CREEK	08NC004	126
CANOE RIVER NEAR DONALD	08NC002	127
CANOE RIVER NEAR VALEMOUNT	08NC003	127
CANYON CREEK NEAR SMITHERS	08EE014	128
CAPILANO RIVER (EAST FORK) NEAR NORTH VANCOUVE	08GA027	128
CAPILANO RIVER (WEST FORK) NEAR NORTH VANCOUVE	08GA028	129
CAPILANO RIVER ABOVE INTAKE	08GA010	130
CAPILANO RIVER AT CANYON	08GA031	132
CARBONATE CREEK NEAR MCMURDO	08NA037	133
CARIBOO RIVER BELOW KANGAROO CREEK	08KH003	134
CARIBOO RIVER NEAR BARKERVILLE	08KH004	135
CARIBOO RIVER NEAR KEITHLEY CREEK	08KH013	136
CARIBOO RIVER NEAR LIKELY	08KH002	136
CARIBOU CREEK NEAR BURTON CITY	08NE006	136
CARNATION CREEK AT 150 m CONTOUR	08HB069	137
CARNATION CREEK AT THE MOUTH	08HB048	137
CARNEY CREEK BELOW PAMBRUN CREEK	08NH131	138
CARPENTER CREEK (SOUTH FORK) AT SANDON	08NJ004	138
CARPENTER CREEK NEAR NEW DENVER	08NJ003	138
CARPENTER CREEK NEAR SANDON	08NJ133	139
CARSON CREEK NEAR PROCTER	08NJ044	139
CASINO CREEK NEAR TRAIL	08NE055	140
CASSIMAYOOK CREEK NEAR BAKER	08NG031	140
CAVEN CREEK BELOW BLOOM CREEK	08NG076	140
CAYOOSH CREEK NEAR LILLOOET	08ME002	141
CAYUSE CREEK NEAR DEER PARK	08NE082	142
CEDARED CREEK NEAR SPILLIMACHEEN	08NA047	142
CELISTA CREEK NEAR ALBAS	08LE025	143
CHAMPION CREEK NEAR CHINA CREEK	08NE095	143
CHANCE CREEK NEAR GARIBALDI	08GA038	143
CHAPMAN CREEK ABOVE SECHELT DIVERSION	08GA060	144
CHAPMAN CREEK NEAR WILSON CREEK	08GA046	144
CHARLES CREEK NEAR BOSWELL	08NH076	145
CHARLESON CREEK AT THE MOUTH	08KG004	145
CHARTRAND CREEK DIVERSION TO TUNKWA LAKE	08LG024	146
CHARTRAND CREEK NEAR MAMETTE LAKE POST OFFICE	08LG001	146
CHARTRAND CREEK NEAR SAVONA	08LG023	146
CHASE CREEK NEAR CHASE	08LE005	147
CHASE RIVER NEAR NANAIMO	08HB064	147
CHASTER CREEK ABOVE HIGHWAY NO. 101	08GA050	147
CHATAWAY CREEK NEAR THE MOUTH	08LG066	148
CHEAKAMUS RIVER ABOVE MILLAR CREEK	08GA072	148
CHEAKAMUS RIVER AT GARIBALDI	08GA017	149
CHEAKAMUS RIVER NEAR BRACKENDALE	08GA043	150
CHEAKAMUS RIVER NEAR CHEEKYE	08GA014	151
CHEAKAMUS RIVER NEAR MONS	08GA024	152
CHEEKYE CREEK NEAR BRACKENDALE	08GA039	152
CHEHALIS RIVER BELOW STATLU CREEK	08MG023	153
CHEHALIS RIVER NEAR HARRISON MILLS	08MG001	153
CHEMAINUS RIVER NEAR WESTHOLME	08HA001	154
CHERRY CREEK BELOW PENDLETON CREEK	08LF086	155
CHERRY CREEK NEAR CHERRYVILLE	08LC049	155
CHERRY CREEK NEAR KAMLOOPS	08LF005	155
CHERRY CREEK NEAR PORT ALBERNI	08HB035	156
CHERRY CREEK NEAR THE MOUTH	08LF079	156
CHESLATTA RIVER NEAR OOTSA LAKE	08JA009	156
CHICHOUYENILY CREEK NEAR MACKENZIE	07EE004	157
CHILAKO RIVER NEAR PRINCE GEORGE	08JC005	157
CHILANKO RIVER NEAR REDSTONE	08MB004	158
CHILCOTIN RIVER BELOW BIG CREEK	08MB005	158
CHILCOTIN RIVER NEAR REDSTONE	08MB003	159
CHILKO RIVER AT OUTLET OF CHILKO LAKE	08MA002	159
CHILKO RIVER NEAR REDSTONE	08MA001	161
CHILLIWACK CREEK NEAR CHILLIWACK	08MF061	162
CHILLIWACK RIVER ABOVE SLESSE CREEK	08MH103	163
CHILLIWACK RIVER AT OUTLET OF CHILLIWACK LAKE	08MH016	164
CHILLIWACK RIVER AT VEDDER CROSSING	08MH001	166
CHILLIWACK RIVER BELOW SLESSE CREEK	08MH055	167
CHIMNEY CREEK AT DOG CREEK ROAD	08MC036	168
CHIMNEY CREEK NEAR WILLIAMS LAKE	08MC004	168
CHINA CREEK NEAR CHINA CREEK	08NE084	169
CHINA CUP CREEK NEAR CRESTON	08NH069	169
CHIPKA CREEK NEAR WARDNER	08NG061	169
CHRISTIAN CREEK NEAR HEFFLEY CREEK	08LB066	170
CHRISTIAN CREEK NEAR PERRY SIDING	08NJ069	170
CHRISTINA CREEK AT OUTLET OF CHRISTINA LAKE	08NN014	171
CHU CHUA CREEK NEAR CHU CHUA	08LB044	171
CHUCHINKA CREEK NEAR THE MOUTH	07EE009	171
CHUCK CREEK NEAR VAVENBY	08LB041	172
CHUM CREEK NEAR SQUILAX	08LE061	172
CHURN CREEK NEAR GANG RANCH	08MD012	172
CHUTE CREEK NEAR NARAMATA	08NM007	173
CINQUEFOIL CREEK ABOVE DIVERSIONS	08MF066	173
CINQUEFOIL CREEK NEAR LILLOOET	08MF020	173
CINQUEFOIL DIVERSION TO LOCHORE CREEK	08MF023	174
CLAPPERTON CREEK NEAR NICOLA	08LG015	174
CLARK CREEK NEAR PAVILION	08MD006	174
CLARK CREEK NEAR WINFIELD	08NM146	175
CLAYBURN CREEK AT CLAYBURN ROAD, MATSQUI	08MH064	175
CLAYBURN CREEK NEAR CLAYBURN (UPPER STATION)	08MH049	176
CLAYTON FALLS CREEK NEAR THE MOUTH	08FB009	176
CLEAR CREEK NEAR VANDERHOOF	08JC007	176
CLEARWATER CREEK BELOW QUA CREEK	08NE116	177
CLEARWATER RIVER AT INLET TO CLEARWATER LAKE	08LA009	177
CLEARWATER RIVER AT OUTLET OF CLEARWATER LAKE	08LA007	178
CLEARWATER RIVER AT OUTLET OF HOBSON LAKE	08LA013	179
CLEARWATER RIVER NEAR CLEARWATER STATION	08LA001	180
CLINTON CREEK AT CLINTON	08LF038	181
CLINTON CREEK NEAR THE MOUTH	08LF084	182
COAL RIVER AT THE MOUTH	10BC001	182
CODY CREEK NEAR SANDON	08NJ134	183
COFFEE CREEK NEAR AINSWORTH	08NH101	183
COLD CREEK NEAR KAMLOOPS (LOWER STATION)	08LB059	184
COLD CREEK NEAR KAMLOOPS (UPPER STATION)	08LB058	184
COLDSTREAM CREEK ABOVE KALAVISTA DIVERSION	08NM178	184
COLDSTREAM CREEK ABOVE MUNICIPAL INTAKE	08NM142	185
COLDSTREAM CREEK AT THE MOUTH	08NM154	186
COLDSTREAM CREEK NEAR LAVINGTON	08NM124	186
COLDWATER RIVER AT MERRITT	08LG010	187
COLDWATER RIVER NEAR BROOKMERE	08LG048	188
COLQUITZ RIVER AT HYACINTH ROAD	08HA037	188
COLQUITZ RIVER AT VIOLET AVENUE	08HA047	189
COLUMBIA RIVER ABOVE NAGLE CREEK	08ND007	189
COLUMBIA RIVER ABOVE STEAMBOAT RAPIDS	08ND011	190
COLUMBIA RIVER AT BIG BEND HIGHWAY CROSSING	08NB011	191
COLUMBIA RIVER AT BIRCHBANK	08NE049	192
COLUMBIA RIVER AT CASTLEGAR	08NE002	193
COLUMBIA RIVER AT DONALD	08NB005	194
COLUMBIA RIVER AT INTERNATIONAL BOUNDARY	08NE058	195
COLUMBIA RIVER AT NICHOLSON	08NA002	198
COLUMBIA RIVER AT REVELSTOKE	08ND002	200
COLUMBIA RIVER AT SURPRISE RAPIDS	08NB006	201
COLUMBIA RIVER AT TRAIL	08NE003	201
COLUMBIA RIVER AT TWELVE MILE FERRY	08ND006	202
COLUMBIA RIVER NEAR EDGEWATER	08NA052	203
COLUMBIA RIVER NEAR FAIRMONT HOT SPRINGS	08NA045	204
CONNAUGHT CREEK ABOVE DIVERSION	08NB018	205
COOLSPRING CREEK NEAR FAIRMONT HOT SPRINGS	08NA030	206
COPELAND SPRINGS NEAR LILLOOET	08MF027	206
COQUIHALLA RIVER BELOW NEEDLE CREEK	08MF062	207
COQUIHALLA RIVER NEAR HOPE	08MF003	208
COQUITLAM LAKE DIVERSION TO BUNTZEN LAKE	08GA055	208
COQUITLAM RIVER AT PORT COQUITLAM	08MH002	209
CORN CREEK NEAR CRESTON	08NH064	210
CORNING CREEK NEAR SQUILAX	08LE077	210
CORNWALL CREEK NEAR ASHCROFT	08LF006	211
COTTONWOOD RIVER ABOVE BASS CREEK	10AC005	211
COTTONWOOD RIVER NEAR CINEMA	08KE009	212
COULDREY CREEK IN LOT 9360	08NP002	213
COUTTS CREEK AT THRUMS	08NJ041	214
COWAN BROOK NEAR YOUBOU	08HA038	214
COWICHAN RIVER AT LAKE COWICHAN	08HA002	215
COWICHAN RIVER NEAR DUNCAN	08HA011	216
CRAIGFLOWER CREEK BELOW BURNSIDE ROAD, VICTO	08HA034	217
CRANBERRY CREEK ABOVE B.C. HYDRO INTAKE	08NE123	217
CRAWFORD CREEK NEAR CRAWFORD BAY	08NH104	218
CRAZY CREEK AT TAFT	08LE026	218
CREGGAN CREEK NEAR NELWAY	08NE065	218
CREIGHTON CREEK NEAR CREIGHTON VALLEY	08LC046	219
CREIGHTON CREEK NEAR LUMBY	08LC033	219
CRISS CREEK NEAR SAVONA	08LF007	220
CROASDAILE CREEK NEAR GRAY CREEK	08NH081	221
CRUICKSHANK RIVER NEAR THE MOUTH	08HB074	221
CRYSTAL CREEK NEAR NELSON	08NJ033	221
CUISSON CREEK (SOUTH FORK) NEAR MARGUERITE	08KE008	221
CUISSON CREEK NEAR ALEXANDRIA	08KE005	222
CULLITON CREEK NEAR BRACKENDALE	08GA040	222
CUSHEON CREEK AT OUTLET OF CUSHEON LAKE	08HA026	223
CUTOFF VALLEY CREEK NEAR CLINTON	08LF037	223
CYGNET CREEK ABOVE DIVERSIONS	08EE024	224
CYGNET CREEK AT ADAMS ROAD	08EE021	224
DAKOTA CREEK NEAR PORT MELLON	08GA036	224
DAN O'REA CREEK NEAR GRAND FORKS	08NN009	225
DANISH CREEK NEAR MERRITT	08LG035	225
DARKE CREEK AT MEADOW VALLEY	08NM025	225
DARKE CREEK NORTHWEST FORK	08NM023	226
DARLINGTON CREEK NEAR CHINOOK COVE	08LB045	226
DAVES CREEK NEAR RUTLAND	08NM137	226
DAVIS CREEK NEAR CRAWFORD BAY	08NH019	227
DAWSON CREEK ABOVE SOUTH DAWSON CREEK	07FD015	227
DE MAMIEL CREEK AT THE MOUTH	08HA025	228
DEADMAN RIVER (WALHACHIN FLUME)	08LF010	228
DEADMAN RIVER ABOVE CRISS CREEK	08LF027	228
DEADMAN RIVER ABOVE WALHACHIN FLUME	08LF009	229
DEADMAN RIVER BELOW WALHACHIN FLUME	08LF011	229
DEAN RIVER BELOW TANSWANKET CREEK	08FC003	230
DEAN RIVER NEAR OCEAN FALLS	08FC001	230
DEASE RIVER AT MCDAME	10AC002	231
DEASE RIVER AT OUTLET OF DEASE LAKE	10AC003	232
DEASE RIVER NEAR THE MOUTH	10AC006	232
DEENA RIVER NEAR QUEEN CHARLOTTE	08OB001	233
DEEP CREEK AT ARMSTRONG	08NM119	233
DEEP CREEK AT THE MOUTH	08NM153	234
DEEP CREEK AT YOUNG ROAD	08NM177	234
DEEP CREEK BELOW GIBSON CREEK	08EE022	235
DEEP CREEK NEAR VERNON (STATION NO. 3)	08NM075	235
DEER CREEK AT BEAVER CREEK ROAD NEAR ALBERNI	08HB057	236
DEER CREEK AT BURNABY LAKE	08MH022	236
DEER CREEK AT DEER PARK	08NE067	237
DEER LAKE BROOK AT BURNABY	08MH112	238
DEFIANCE CREEK NEAR PORT RENFREW	08HA040	238
DEMSAL CREEK NEAR THRUMS	08NJ103	238
DERMONT CREEK NEAR LAVINGTON	08LC017	239
DEROCHE CREEK AT DEROCHE	08MH070	239
DIANA CREEK NEAR PRINCE RUPERT	08EG015	239
DICKEBUSCH CREEK NEAR THE MOUTH	07FB004	240
DICKEY CREEK NEAR LILLOOET	08ME012	240
DIETRICH CREEK AT NELSON	08NJ122	240
DISTRICT BROOK NEAR CANYON	08NH113	241
DOG CREEK NEAR DOG CREEK	08MD009	241
DORE RIVER NEAR MCBRIDE	08KA001	242
DOWNIE CREEK NEAR REVELSTOKE	08ND009	243
DRAGON CREEK ABOVE DRAGON LAKE	08KH023	244
DRAGON CREEK AT OUTLET OF DRAGON LAKE	08KH016	244
DRIFTWOOD RIVER ABOVE KASTBERG CREEK	08JD006	245
DRY GULCH CREEK NEAR RADIUM JUNCTION	08NA055	245
DUCK CREEK AT OUTLET OF ST. MARY LAKE	08HA046	245
DUCK CREEK BELOW OUTLET OF ST. MARY LAKE	08HA027	246
DUCK CREEK NEAR WYNNDEL	08NH016	246
DUHAMEL CREEK ABOVE DIVERSIONS	08NJ028	247
DUMONT CREEK NEAR WINLAW	08NJ166	247
DUNCAN RIVER BELOW B.B. CREEK	08NH119	248
DUNCAN RIVER BELOW DUNCAN DAM	08NH126	248
DUNCAN RIVER BELOW LARDEAU RIVER	08NH118	249
DUNCAN RIVER NEAR HOWSER	08NH001	250
DUNSFORD CREEK NEAR CANYON	08NH063	251
DURAND CREEK (FERGUSON DIVERSION) NEAR SAVOI	08LF030	251
DURAND CREEK BELOW GUICHON DIVERSION	08LF028	251
DURAND CREEK NEAR SAVONA	08LF032	252
DUTCH CREEK NEAR FAIRMONT HOT SPRINGS	08NA014	252
DUTEAU CREEK AT OUTLET OF HADDO LAKE	08LC014	252
DUTEAU CREEK NEAR LAVINGTON	08LC006	253
EAGLE CREEK (SOUTH FORK) NEAR BLEWETT	08NJ066	254
EAGLE CREEK (WEST FORK) NEAR BLEWETT	08NJ143	255
EAGLE RIVER NEAR MALAKWA	08LE024	255
EAGLE RIVER NEAR SICAMOUS	08LE007	256
EARLE CREEK NEAR EGMONT	08GB008	256

NAME	STATION NO.	PAGE
EAST CANOE CREEK ABOVE DAM	08LE108	257
EAST CANOE CREEK NEAR SALMON ARM	08LE054	257
EAST SPRING CREEK NEAR WINDERMERE	08NA043	257
EDELWEISS CREEK NEAR GOLDEN	08NB004	258
EDGREN CREEK AT THE MOUTH	08NE108	258
EDWARDS CREEK (LYON'S DIVERSION) NEAR HEFFLEY CR	08LB023	259
EDWARDS CREEK NEAR HEFFLEY CREEK	08LB003	259
EIMER CREEK NEAR KIMBERLEY	08NG026	259
ELAHO RIVER NEAR SQUAMISH	08GA041	260
ELAHO RIVER NEAR THE MOUTH	08GA071	260
ELDORADO CREEK NEAR NELWAY	08NE068	260
ELK CREEK AT PRAIRIE CENTRAL ROAD	08MF048	261
ELK CREEK NEAR ROSEDALE	08MF016	261
ELK RIVER AT ELKO	08NK001	262
ELK RIVER AT FERNIE	08NK002	263
ELK RIVER AT PHILLIPS BRIDGE	08NK005	264
ELK RIVER AT STANLEY PARK	08NK013	265
ELK RIVER BELOW WEARY CREEK	08NK027	266
ELK RIVER NEAR NATAL	08NK016	267
ELLIOTT CREEK ABOVE DIVERSIONS	08NJ165	268
ELLIOTT CREEK NEAR APPLEDALE	08NJ072	268
ELLIS CREEK AT PENTICTON	08NM135	269
ELLIS CREEK NEAR PENTICTON	08NM074	269
ELLIS CREEK NORTH MAIN DIVERSION	08NM122	269
ELLIS CREEK SOUTH MAIN DIVERSION	08NM056	270
ELMER CREEK NEAR KINGSGATE	08NH059	271
ELMIRA CREEK NEAR YAHK	08NH058	271
ELSIE HOLMES CREEK NEAR WYNNDEL	08NH043	272
EMORY CREEK NEAR CHOATE	08MF030	272
ENDAKO RIVER AT ENDAKO	08JB004	272
ENEAS CREEK NEAR SUMMERLAND	08NM226	273
ENGLISH CREEK NEAR CRESTON	08NH072	273
ENGLISHMAN RIVER NEAR PARKSVILLE	08HB002	273
ENOS CREEK AT OUTLET OF ENOS LAKE	08HB030	274
EQUESIS CREEK NEAR THE MOUTH	08NM161	275
EQUESIS CREEK NEAR VERNON	08NM024	275
ESPERON CREEK NEAR KELOWNA	08NM130	276
EWER CREEK NEAR THE MOUTH	08NM175	276
EXCHAMSIKS RIVER NEAR TERRACE	08EG012	277
EZEKIEL CREEK NEAR CRESTON	08NH076	278
EZRA CREEK NEAR THRUMS	08NJ030	278
FALLS CREEK ABOVE S.I.D. DIVERSION	08NJ163	278
FALLS CREEK NEAR SOUTH SLOCAN	08NJ018	279
FANTAIL RIVER AT OUTLET OF FANTAIL LAKE	09AA014	279
FARRELL CREEK NEAR TAPPEN (LOWER STATION)	08LE055	280
FARRELL CREEK NEAR TAPPEN (UPPER STATION)	08LE056	280
FAUQUIER CREEK NEAR FAUQUIER	08NE052	280
FAWN CREEK NEAR ALBERNI	08HB072	281
FELL CREEK NEAR NELSON	08NJ129	281
FERGUSON CREEK NEAR EDGEWOOD	08NE077	282
FERRY CREEK NEAR LUMBY	08LC034	282
FIELD SPRING (NO. 1) NEAR FIELD	08NA015	283
FIELD SPRING (NO. 2) NEAR FIELD	08NA016	283
FIELD SPRING (NO. 3) NEAR FIELD	08NA017	284
FIFTYNINE CREEK NEAR CHASM	08LF046	284
FIFTYNINE CREEK NEAR CLINTON	08LF080	284
FIFTYSEVEN CREEK NEAR CLINTON	08LF047	285
FINDLAY CREEK AT THE MOUTH	08NG022	285
FINDLAY CREEK NEAR CANAL FLATS	08NG001	286
FINLAY RIVER ABOVE AKIE RIVER	07EA005	286
FINLAY RIVER AT FINLAY FORKS	07EB001	287
FINLAY RIVER AT WARE	07EA001	288
FISHER CREEK AT WEST BOUNDARY D.L. 3598	08LD009	288
FISHTRAP CREEK NEAR MCLURE	08LB024	289
FIVE HUNDRED CREEK NEAR KINCOLITH	08DB003	289
FIVE MILE CREEK ABOVE CITY INTAKE	08NJ155	289
FIVE MILE CREEK BELOW CARIBOO BILL LAKE	08MC027	290
FLAG CREEK NEAR FLAGSTONE	08NG029	290
FLATBED CREEK AT KILOMETRE 110 HERITAGE HIGHWAY	07FB008	291
FLATHEAD RIVER AT FLATHEAD	08NP001	292
FLORENCE CREEK NEAR NEW DENVER	08NJ028	293
FLOYD CREEK ABOVE ORDE CREEK	08NH114	294
FLOYD CREEK NEAR CANYON (LOWER STATION)	08NH075	294
FLOYD CREEK NEAR CANYON (UPPER STATION)	08NH074	294
FLOYD CREEK NEAR ERICKSON	08NH006	295
FLYNN CREEK NEAR WINLAW	08NJ139	295
FORBES CREEK NEAR LAC LA HACHE	08MC022	295
FORBES CREEK NEAR THE MOUTH	08MC041	295
FORDING RIVER ABOVE CLODE CREEK	08NK025	296
FORDING RIVER AT THE MOUTH	08NK018	296
FORDING RIVER BELOW CLODE CREEK	08NK021	297
FORESTRY CREEK NEAR VANCOUVER	08GA015	297
FORREST KERR CREEK ABOVE 460 m CONTOUR	08CG006	298
FORSTER CREEK NEAR WILMER	08NA009	298
FORT NELSON RIVER ABOVE MUSKWA RIVER	10CC002	299
FORT NELSON RIVER AT FORT NELSON	10CC001	299
FORTUNE CREEK AT STEPNEY	08LC031	300
FORTUNE CREEK NEAR ARMSTRONG	08LC035	300
FORTY-NINE CREEK NEAR BLEWETT	08NJ068	301
FOSTER CREEK NEAR NELSON	08NJ050	301
FOUNTAIN CREEK ABOVE KWOTLENEMO LAKE	08MD029	302
FOUNTAIN CREEK NEAR LILLOOET	08MD001	302
FOUR MILE CREEK NEAR WILLOW POINT	08NJ126	303
FOWLER CREEK AT 640 m CONTOUR	08LE098	303
FOWLER CREEK NEAR FALKLAND	08LE067	304
FOXY CREEK ABOVE LU CREEK	08EE015	304
FRALING CREEK NEAR SPILLIMACHEEN	08NA023	304
FRANCES CREEK NEAR WILMER	08NA051	305
FRASER RIVER ABOVE TEXAS CREEK	08MF040	305
FRASER RIVER ABOVE THOMPSON RIVER	08MF004	306
FRASER RIVER AT BIG BAR CREEK	08MD013	307
FRASER RIVER AT HANSARD	08KA004	308
FRASER RIVER AT HOPE	08MF005	309
FRASER RIVER AT MCBRIDE	08KA005	311
FRASER RIVER AT MISSION	08MH024	312
FRASER RIVER AT PORT MANN PUMPING STATION	08MH126	313
FRASER RIVER AT PRINCE GEORGE	08KC001	313
FRASER RIVER AT QUESNEL	08KE002	313
FRASER RIVER AT RED PASS	08KA007	314
FRASER RIVER AT SHELLEY	08KB001	315
FRASER RIVER AT SOUTH FORT GEORGE	08KE018	315
FRASER RIVER BELOW SETON RIVER	08MF017	316
FRASER RIVER NEAR AGASSIZ	08MF035	317
FRASER RIVER NEAR MARGUERITE	08MC018	318
FRENCH BAR CREEK NEAR BIG BAR CREEK	08MD014	319
FRENCH CREEK AT COOMBS	08HB028	319
FROSST CREEK NEAR LINDELL BEACH	08MH073	319
FRUITVALE CREEK NEAR FRUITVALE	08NE015	320
FRY CREEK BELOW CARNEY CREEK	08NH130	320
FRY CREEK NEAR LARDO	08NH002	320
FULFORD CREEK ON SALTSPRING ISLAND	08HA055	321
FULTON RIVER AT FULTON LAKE NARROWS	08EC005	321
FULTON RIVER AT OUTLET OF CHAPMAN LAKE	08EC008	321
FULTON RIVER AT THE MOUTH	08EC002	321
GARDOM CREEK NEAR GRINDROD	08LC036	322
GARRITY CREEK NEAR TAGHUM	08NJ116	322
GASPARD CREEK AT GANG RANCH	08MD010	322
GASPARD CREEK BELOW OUTLET OF GASPARD LAKE	08MD032	322
GATES RIVER BELOW HAYLMORE CREEK	08ME022	323
GEDDES CREEK AT THE MOUTH	10BE006	323
GENERAL CREEK ABOVE DIVERSION	08KE031	323
GENERAL CREEK IN ALEXANDRIA I.R. NO. 3	08KE026	324
GENESEE CREEK AT THE MOUTH	08FA009	324
GIBBS BROOK NEAR HAGENSBORG	08FB010	324
GIBSON CREEK NEAR BRILLIANT	08NE085	324
GIFFORD SLOUGH NEAR MATSQUI	08MH073	325
GILLIAM CREEK NEAR ERIE	08NE047	325
GILLON CREEK NEAR PAVILION	08MD004	325
GIVEOUT CREEK NEAR NELSON	08NJ123	325
GLACIER CREEK NEAR HOWSER	08NH003	326
GLADE CREEK NEAR SHOREACRES	08NJ149	326
GLADWIN CREEK ABOVE DIVERSIONS	08LF088	327
GLADWIN CREEK NEAR LYTTON	08LF083	327
GLADYS RIVER AT OUTLET OF GLADYS LAKE	09AE004	328
GLASER CREEK NEAR CRESTON	08NH116	328
GLENORA CREEK NEAR DUNCAN	08HA056	329
GOAT RIVER NEAR ERICKSON	08NH004	330
GOATHORN CREEK NEAR TELKWA	08EE006	331
GOLD CREEK ABOVE DIVERSION	08NG069	332
GOLD CREEK DIVERSION CHANNEL NEAR THE MOUTH	08NG060	332
GOLD CREEK DIVERSION NEAR CRANBROOK	08NG043	333
GOLD CREEK NEAR CRANBROOK	08NG017	333
GOLD CREEK NEAR NEWGATE	08NG004	334
GOLD RIVER ABOVE BACHELOR CREEK	08HD013	334
GOLD RIVER ABOVE PALMER CREEK	08HD014	335
GOLD RIVER BELOW UCONA RIVER	08HC001	335
GOLDIE CREEK (SOUTH FORK) NEAR INVERMERE	08NA055	336
GOLDIE CREEK NEAR INVERMERE	08NA026	336
GOLDSMITH CREEK NEAR KASLO	08NH048	337
GOLDSTREAM RIVER BELOW OLD CAMP CREEK	08ND012	337
GOLDSTREAM RIVER IN GOLDSTREAM PROVINCIAL PA	08HA039	338
GOOSE CREEK ABOVE CANDER CREEK	08NJ135	338
GOOSE CREEK AT PROVINCIAL FOREST ROAD	08NJ159	339
GOOSE CREEK NEAR CRESCENT VALLEY	08NJ112	339
GORDON CREEK ABOVE DIVERSIONS	08LE092	339
GORDON CREEK NEAR SALMON ARM	08LE044	340
GRAHAM CREEK AT THE MOUTH	08MB045	340
GRAHAM RIVER ABOVE COLT CREEK	07FA005	341
GRANBY RIVER AT GRAND FORKS	08NN002	341
GRANITE CREEK AT THE MOUTH	08NL021	342
GRANT CREEK NEAR SLOCAN	08NJ054	342
GRAVE CREEK AT THE MOUTH	08NK019	343
GRAY CREEK NEAR GRAY CREEK	08NH085	343
GRAYLING RIVER NEAR THE MOUTH	10BE011	343
GREATA CREEK NEAR THE MOUTH	08NM173	344
GREELEY CREEK ABOVE DIVERSION	08ND021	344
GREEN RIVER NEAR PEMBERTON	08MG003	345
GREEN RIVER NEAR RAINBOW	08MG004	346
GREENSTONE CREEK NEAR MAMETTE LAKE	08LG007	346
GREENWOOD CREEK NEAR PROCTER	08NJ022	347
GRIER CREEK NEAR SALMON ARM	08LE045	347
GROHMAN CREEK NEAR NELSON	08NJ059	347
GUICHON CREEK ABOVE MAMIT LAKE	08LG003	348
GUICHON CREEK ABOVE TUNKWA LAKE DIVERSION	08LG056	349
GUICHON CREEK AT OUTLET OF MAMIT LAKE	08LG041	349
GUICHON CREEK AT THE MOUTH	08LG067	350
GUICHON CREEK BELOW QUENVILLE CREEK	08LG032	350
GUICHON CREEK DIVERSION TO TUNKWA LAKE	08LG014	351
GUICHON CREEK NEAR LOWER NICOLA	08LG004	352
GUN CREEK NEAR MINTO CITY	08ME006	353
GURNEY CREEK NEAR PORT COQUITLAM	08MH008	353
GWILLIM CREEK NEAR SLOCAN CITY	08NJ132	353
HADDEN CREEK NEAR ARROW PARK	08NE019	354
HAHA CREEK NEAR WARDNER	08NG034	354
HAIRSINE CREEK NEAR THE MOUTH	08NM138	354
HALFWAY CREEK (WEST FORK OF WENSLEY CREEK) A	08NE101	355
HALFWAY CREEK NEAR SALMO	08NE046	355
HALFWAY RIVER ABOVE GRAHAM RIVER	07FA003	355
HALFWAY RIVER NEAR FARRELL CREEK	07FA006	356
HALFWAY RIVER NEAR FARRELL CREEK (LOWER STAT	07FA001	356
HANNA CREEK NEAR TRAIL	08NE060	357
HARPER CREEK NEAR THE MOUTH	08LB076	357
HARRISON RIVER NEAR HARRISON HOT SPRINGS	08MG013	358
HARROP CREEK NEAR HARROP	08NJ027	359
HARTLEY CREEK NEAR FERNIE	08NK011	359
HASCHEAK CREEK ABOVE RUSSELL CREEK	08LB071	360
HASCHEAK CREEK BELOW RUSSELL CREEK	08LB070	360
HASLAM CREEK NEAR CASSIDY	08HB003	361
HAT CREEK - HAMMOND DIVERSION TO OREGON JACK	08LF014	361
HAT CREEK ABOVE ANDERSON CREEK	08LF092	362
HAT CREEK ABOVE HARRY CREEK	08LF090	362
HAT CREEK ABOVE MARBLE CANYON	08LF034	362
HAT CREEK NEAR ASHCROFT	08LF013	363
HAT CREEK NEAR CACHE CREEK	08LF015	363
HAT CREEK NEAR CARQUILE	08LF035	364
HAT CREEK NEAR UPPER HAT CREEK	08LF081	364
HATCH CREEK NEAR SPILLIMACHEEN	08NA048	365
HAWKS CREEK ABOVE LYNE CREEK	08MC024	365
HAWKS CREEK NEAR SCHILTREE	08MC003	366
HAWKS CREEK NEAR SODA CREEK	08MC013	366
HAWKS CREEK NEAR WILLIAMS LAKE	08MC012	367
HAYES CREEK BELOW SHINISH CREEK	08NL051	367
HAYES CREEK NEAR JURA	08NL018	368
HAYES CREEK NEAR PRINCETON	08NL020	368
HAYNES CREEK NEAR OSOYOOS	08NM128	369
HEART CREEK NEAR FAUQUIER	08NE081	369
HEDLEY CREEK NEAR HEDLEY	08NL009	369
HEDLEY CREEK NEAR THE MOUTH	08NL050	370
HEFFLEY CREEK (ANDERSON DIVERSION) NEAR HEFF	08LB008	370
HEFFLEY CREEK (CRAWSHAW DITCH) NEAR HEFFLEY	08LB007	370
HEFFLEY CREEK NEAR HEFFLEY CREEK	08LB005	371
HEFFLEY CREEK NEAR KAMLOOPS	08LB004	371
HELLER CREEK ABOVE DIVERSIONS	08LF091	372
HEMP CREEK NEAR RAFT RIVER	08LA002	372
HENDRIX CREEK AT OUTLET OF HENDRIX LAKE	08LA024	372

NAME	STATION NO.	PAGE
HENDRIX CREEK BELOW STINSON CREEK	08LA022	373
HENDRYX CREEK NEAR RIONDEL	08NH070	373
HIDDEN CREEK NEAR THE MOUTH	08NE114	374
HILDA CREEK NEAR RUTLAND	08NM016	374
HILL CREEK ABOVE SPAWNING CHANNEL	08NE124	374
HILL CREEK AT HILL ROAD BRIDGE	08NE120	375
HILL CREEK NEAR 820 m CONTOUR	08NE121	375
HIRD CREEK NEAR WINLAW	08NJ055	376
HIRSCH CREEK NEAR THE MOUTH	08FF002	376
HIUIHILL CREEK ABOVE DIVERSIONS	08LD002	376
HIUIHILL CREEK NEAR SQUILAX (LOWER STATION)	08LD006	377
HIXON CREEK AT OUTLET OF BELKNAP LAKE	08GA001	377
HIXON CREEK BELOW ANN LAKE	08GA008	378
HIXON CREEK NEAR THE MOUTH	08GA003	378
HIXON CREEK TRIBUTARY	08GA011	379
HLINA CREEK AT THE MOUTH	08LE105	379
HLINA CREEK BELOW RASMUSSEN CREEK	08LE104	379
HOBSON CREEK BELOW BOIS GRENIER CREEK	08LA018	380
HODSON CREEK NEAR NARCOSLI CREEK	08KE019	380
HOGGAN CREEK AT OUTLET OF HOGGAN LAKE	08HB046	380
HOGRANCH CREEK AT PARSON	08NA038	381
HOGSBACK CREEK NEAR MAPES	08JC009	381
HOLIDAY CREEK NEAR BOSWELL	08NH042	381
HOLMES RIVER NEAR MCBRIDE	08KA003	382
HOMATHKO RIVER AT INLET TO TATLAYOKO LAKE	08GD008	382
HOMATHKO RIVER AT THE MOUTH	08GD004	383
HOMATHKO RIVER AT TRAGEDY CANYON	08GD006	383
HOMATHKO RIVER BELOW MOSTETUKO RIVER	08GD009	384
HOMATHKO RIVER BELOW NUDE CREEK	08GD005	384
HOMATHKO RIVER NEAR TATLA LAKE	08GD003	385
HOMESITE CREEK NEAR HALFMOON BAY	08GB010	385
HOMESTAKE CREEK NEAR LOUIS CREEK	08LD005	386
HOP RANCH CREEK ABOVE DRYDEN CREEK	08GA058	386
HOPE SLOUGH NEAR ROSEDALE	08MF038	386
HORN CREEK NEAR KALEDEN	08NM049	387
HORN CREEK NEAR OLALLA	08NM147	387
HORSE CREEK NEAR GOLDEN	08NA041	387
HORSEFLY RIVER ABOVE MCKINLEY CREEK	08KH010	388
HORSEFLY RIVER AT HORSEFLY	08KH007	388
HORSETHIEF CREEK NEAR WILMER	08NA005	389
HOSMER CREEK ABOVE DIVERSIONS	08NK028	389
HOSPITAL CREEK ABOVE HOSPITAL CREEK NORTH FOR	08NB010	390
HOSPITAL CREEK NEAR GOLDEN	08NB002	390
HOSPITAL CREEK NORTH FORK NEAR GOLDEN	08NB005	391
HOSPITAL SPRING NEAR HAZELTON	08EE007	391
HOTSPRING CREEK NEAR FAIRMONT HOT SPRINGS	08NA058	392
HOULE CREEK NEAR KIMBERLEY	08NG056	392
HOWARD CREEK NEAR PENTICTON	08NM058	392
HOWARTH CREEK (WEST FORK) NEAR MERRITT	08LG026	392
HOWARTH CREEK NEAR MERRITT	08LG025	393
HOWELL CREEK ABOVE CABIN CREEK	08NP003	393
HUDSON CREEK NEAR THE MOUTH	08LE107	393
HUGGARD CREEK NEAR WYNNDEL	08NH010	394
HUME CREEK NEAR NELSON	08NJ062	394
HUMMING BIRD CREEK NEAR SICAMOUS	08LC023	394
HURLEY RIVER NEAR BRALORNE	08ME011	395
HUSCROFT CREEK NEAR LISTER	08NH011	395
HYDE CREEK AT DE BOVILLE SLOUGH	08MH139	396
HYDRAULIC CREEK AT OUTLET OF MCCULLOCH RESERVO	08NM011	396
HYDRAULIC CREEK DIVERSION NEAR KELOWNA	08NM039	397
HYDRAULIC CREEK NEAR THE MOUTH	08NM010	397
HYDRAULIC CREEK SOUTHEAST KELOWNA DIVERSION	08NM040	398
HYLAND RIVER NEAR LOWER POST	10AD001	398
ILLECILLEWAET RIVER AT GREELEY	08ND013	399
ILLECILLEWAET RIVER NEAR GLACIER	08ND005	400
ILLECILLEWAET RIVER NEAR REVELSTOKE	08ND003	400
INCOMAPPLEUX RIVER NEAR BEATON	08NE001	401
INCOMAPPLEUX RIVER NEAR CAMBORNE	08NE012	402
INDIAN CREEK NEAR RIONDEL	08NH105	402
INDIAN RESERVE CREEK (NORTH FORK) NEAR LANTZVI	08HB051	402
INDIAN RESERVE CREEK (SOUTH FORK) NEAR LANTZVI	08HB052	403
INDIAN RIVER NEAR THE MOUTH	08GA004	403
INDIAN RIVER NEAR VANCOUVER (UPPER STATION)	08GA005	403
INGENIKA RIVER ABOVE SWANNELL RIVER	07EA004	404
INGRAM CREEK NEAR THE MOUTH	08LE008	404
INKANEEP CREEK NEAR OLIVER (LOWER STATION)	08NM012	405
INKANEEP CREEK NEAR OLIVER (UPPER STATION)	08NM082	405
INKANEEP CREEK NEAR THE MOUTH	08NM200	406
INONOAKLIN CREEK ABOVE VALLEY CREEK	08NE110	406
INONOAKLIN CREEK NEAR EDGEWOOD	08NE009	407
IOCO NO. 2 CREEK NEAR IOCO	08GA018	407
IOCO NO. 5 CREEK NEAR IOCO	08GA019	407
IRISH CREEK NEAR VERNON	08NM052	408
IRON CREEK NEAR BRILLIANT	08NE091	408
ISAAC CREEK NEAR NELSON	08NJ036	408
ISKUT RIVER ABOVE SNIPPAKER CREEK	08CG004	409
ISKUT RIVER AT OUTLET OF KINASKAN LAKE	08CG003	409
ISKUT RIVER BELOW JOHNSON RIVER	08CG001	410
IZMAN CREEK NEAR LYTTON	08MF021	411
JACK CREEK AT THE MOUTH	08NM013	411
JACKO CREEK NEAR KAMLOOPS	08LE009	412
JACOBS CREEK ABOVE JACOBS LAKE	08MH106	412
JAMIESON CREEK ABOVE BRITISH COLUMBIA FRUITLAN	08LB008	412
JAMIESON CREEK AT THE MOUTH	08GA062	413
JAMIESON CREEK BELOW BRITISH COLUMBIA FRUITLAN	08LB009	413
JARVIS CREEK NEAR NELSON	08NJ048	413
JEROME CREEK NEAR APPLEDALE	08NJ018	414
JIM SMITH CREEK NEAR CRANBROOK	08NG024	414
JOE RICH CREEK NEAR RUTLAND	08NM129	415
JOE ROSS CREEK NEAR THE MOUTH	08LF094	415
JOHN BROWN CREEK NEAR SMITHERS	08EE008	416
JOHN CREEK NEAR MEADOW CREEK	08NH125	416
JOHNSON CREEK NEAR MARA	08LC028	416
JONES CREEK NEAR 150 MILE HOUSE	08MC019	417
JORDAN RIVER ABOVE KIRKUP CREEK	08ND014	417
JORDAN RIVER NEAR REVELSTOKE	08ND004	418
JOSEPH CREEK ABOVE LAGOON OUTFALL	08NG074	418
JOSEPH CREEK AT CRANBROOK	08NG016	419
JOSEPH CREEK IN LOT 5460	08NG070	419
JOSEPH CREEK IN LOT SL-1A	08NG068	420
JOSEPH CREEK NEAR CRANBROOK	08NG014	420
JULY CREEK NEAR GRAND FORKS	08NN018	420
JUMP CREEK AT THE MOUTH	08HB041	421
KANAKA CREEK NEAR WEBSTER CORNERS	08MH076	422
KASLO RIVER BELOW KEMP CREEK	08NH005	423
KATHLYN CREEK ABOVE SIMPSON CREEK	08EE010	424

NAME	STATION NO	PAGE
KAZCHEK CREEK NEAR THE MOUTH	08JE001	424
KECHIKA RIVER ABOVE BOYA CREEK	10BB002	425
KECHIKA RIVER AT THE MOUTH	10BB001	425
KEEN CREEK BELOW KYAWATS CREEK	08NH132	426
KELLY CREEK AT 860 m CONTOUR	08NE113	427
KELLY CREEK NEAR FRUITVALE	08NE071	427
KELLY CREEK NEAR FRUITVALE (LOWER STATION)	08NE057	427
KELLY CREEK NEAR FRUITVALE (UPPER STATION)	08NE056	428
KELOWNA CREEK AT RUTLAND STATION	08NM117	428
KELOWNA CREEK NEAR KELOWNA (LOWER STATION)	08NM053	429
KELOWNA CREEK NEAR RUTLAND	08NM061	430
KELOWNA CREEK NEAR RUTLAND (UPPER STATION)	08NM026	430
KEMANO POWERHOUSE	08FE002	431
KEMANO RIVER ABOVE POWERHOUSE TAILRACE	08FE003	432
KEMANO RIVER NEAR BUTEDALE	08FE001	432
KEMP CREEK NEAR KASLO	08NH054	432
KENWORTHY CREEK NEAR HATZIC	08MH077	433
KEREMEOS CREEK ABOVE MARSEL CREEK	08NL014	433
KEREMEOS CREEK AT MIDDLE BENCH ROAD	08NL044	434
KEREMEOS CREEK BELOW WILLIS INTAKE	08NL045	434
KEREMEOS CREEK NEAR OLALLA	08NL010	435
KERNAGHAN CREEK ABOVE DIVERSIONS	08LE081	435
KERSLEY CREEK NEAR QUESNEL	08KE017	436
KETTLE RIVER AT CARSON	08NN005	436
KETTLE RIVER AT CASCADE	08NN006	437
KETTLE RIVER AT KETTLE VALLEY	08NN004	438
KETTLE RIVER NEAR FERRY	08NN013	439
KETTLE RIVER NEAR LAURIER	08NN012	441
KETTLE RIVER NEAR WESTBRIDGE	08NN026	442
KHTADA RIVER NEAR KWINITSA	08EG003	443
KICKING HORSE RIVER AT GOLDEN	08NA006	443
KICKING HORSE RIVER AT NO. 2 TUNNEL	08NA008	444
KICKING HORSE RIVER BELOW SHERBROOKE CREEK	08NA053	444
KICKING HORSE RIVER NEAR FIELD	08NA007	445
KILMARNOCK CREEK NEAR THE MOUTH	08NK029	445
KIMBERLEY CREEK NEAR KIMBERLEY	08NG057	445
KINDERSLEY CREEK NEAR ERISCO	08NA022	446
KIRBYVILLE CREEK NEAR THE MOUTH	08ND018	446
KIRKPATRICK CREEK NEAR ALKALI LAKE	08MD020	447
KISKATINAW RIVER NEAR FARMINGTON	07FD001	447
KISPIOX RIVER NEAR HAZELTON	08EB004	448
KITCHENER CREEK NEAR KITCHENER	08NH108	448
KITIMAT RIVER BELOW HIRSCH CREEK	08FF001	448
KITSAULT RIVER ABOVE KLAYDUC CREEK	08DB011	449
KITSEGUECLA RIVER NEAR SKEENA CROSSING	08EF004	450
KITSUCKSUS CREEK ABOVE CHERRY CREEK	08HB063	450
KITSUMKALUM RIVER NEAR TERRACE	08EG006	451
KITTO CREEK ABOVE DIVERSIONS	08NJ171	451
KITTO CREEK NEAR BALFOUR	08NJ141	452
KLAPPAN RIVER NEAR TELEGRAPH CREEK	08CC001	452
KLINAKLINI RIVER EAST CHANNEL (MAIN) NEAR T	08GE002	453
KLINAKLINI RIVER WEST CHANNEL (OVERFLOW) NEA	08GE001	453
KLO CREEK AT MCCULLOCH ROAD	08NM228	453
KLO CREEK DIVERSION NEAR KELOWNA	08NM030	454
KLO CREEK NEAR KELOWNA	08NP004	454
KLOIYA RIVER NEAR PRINCE RUPERT	08EG016	455
KNARSTON CREEK AT SUPERIOR ROAD	08HB040	455
KNIFE CREEK AT 141 MILE HOUSE	08MC014	456
KNIFE CREEK BELOW OUTLET OF SQUAWK LAKE	08MC038	456
KNIGHT CREEK ABOVE DIVERSIONS	08LE101	456
KNOUFF CREEK AT OUTLET OF SULLIVAN LAKE	08LB028	457
KNOUFF CREEK BELOW SULLIVAN LAKE	08LB025	457
KOKISH RIVER AT BEAVER COVE	08HF001	457
KOKISH RIVER BELOW BONANZA RIVER	08HF003	458
KOKSILAH RIVER AT COWICHAN STATION	08HA003	459
KOKSILAH RIVER BELOW KELVIN CREEK	08HA045	460
KOOTENAI RIVER AT PORTHILL	08NH021	460
KOOTENAI RIVER NEAR COPELAND	08NH031	462
KOOTENAI RIVER NEAR REXFORD	08NG039	463
KOOTENAY LAKE OUTFLOW NEAR CORRA LINN	08NJ158	464
KOOTENAY RIVER AT CANAL FLATS	08NF002	466
KOOTENAY RIVER AT FORT STEELE	08NG065	467
KOOTENAY RIVER AT GLADE	08NJ001	468
KOOTENAY RIVER AT KOOTENAY CROSSING	08NF001	469
KOOTENAY RIVER AT NELSON	08NJ009	470
KOOTENAY RIVER AT NEWGATE	08NG042	471
KOOTENAY RIVER AT WARDNER	08NG005	473
KOOTENAY RIVER NEAR BONNINGTON FALLS	08NJ007	474
KOOTENAY RIVER NEAR BONNINGTON POOL	08NJ008	475
KOOTENAY RIVER NEAR SKOOKUMCHUCK	08NG053	475
KOOTENAY RIVER NEAR TAGHUM	08NJ002	476
KUPP CREEK ABOVE HENZ CREEK	08NF067	476
KOSTERING CREEK NEAR JESMOND	08MD018	476
KUSKANAX CREEK AT 1040 m CONTOUR	08NE117	477
KUSKANAX CREEK NEAR NAKUSP	08NE006	477
KWADACHA RIVER NEAR WARE	07EA002	478
KWINSHATIN CREEK NEAR MERRITT	08LG027	478
LA FRANCE CREEK NEAR BOSWELL	08NH089	479
LAIRD CREEK NEAR BALFOUR	08NJ019	480
LAKELSE RIVER NEAR TERRACE	08EG007	480
LAKIT CREEK AT THE UPPER FORKS	08NG027	480
LAKIT CREEK NEAR FORT STEELE	08NG058	481
LALUWISSIN CREEK NEAR LYTTON	08MF013	481
LAMBLY CREEK ABOVE TERRACE CREEK	08NM165	481
LAMBLY CREEK BELOW BALD RANGE CREEK	08NM168	482
LAMBLY CREEK BELOW TERRACE CREEK	08NM141	482
LAMBLY CREEK DIVERSION TO ROSE VALLEY LAKE	08NM167	482
LAMBLY CREEK NEAR KELOWNA	08NM056	483
LAMBLY CREEK NEAR THE MOUTH	08NM003	484
LAMBLY LAKE DIVERSION TO POWERS CREEK	08NM138	484
LANG CREEK NEAR BRILLIANT	08NE070	485
LANG CREEK NEAR POWELL RIVER	08GB007	485
LANGDALE CREEK AT HIGHWAY NO. 101 NEAR GIBSO	08GA061	486
LARCH HILLS CREEK NEAR MARA	08LC021	486
LARDEAU RIVER AT GERRARD	08NH038	487
LARDEAU RIVER AT MARBLEHEAD	08NH007	488
LAVENTIE CREEK NEAR THE MOUTH	08JA015	489
LEE CREEK ABOVE DIVERSIONS	08MD033	490
LEE CREEK NEAR PAVILION	08MD023	490
LEECH RIVER AT THE MOUTH	08HA017	490
LEMIEUX CREEK NEAR MOUNT OLIE	08LB042	491
LEMIEUX CREEK NEAR THE MOUTH	08LB076	491
LEMON CREEK ABOVE SOUTH LEMON CREEK	08NJ160	492
LEONIE CREEK NEAR BARRIERE	08LB030	492
LEVELTON SPRING (WEIR NO. 1) NEAR KATIT VILL	08FA005	493
LEVELTON SPRING (WEIR NO. 2) NEAR KATIT VILL	08FA006	493
LEWIS CREEK AT THE MOUTH	08NG084	493
LEWIS CREEK NEAR TA TA CREEK	08NG049	493

NAME	STATION NO.	PAGE
LIARD RIVER ABOVE BEAVER RIVER	10BE005	494
LIARD RIVER ABOVE KECHIKA RIVER	10BE006	494
LIARD RIVER AT LOWER CROSSING	10BE001	495
LIGHTNING CREEK AT WINGDAM	08KE004	496
LILLOOET RIVER NEAR PEMBERTON	08MG005	497
LIME CREEK BELOW PATSY CREEK	08DB009	498
LIME CREEK NEAR THE MOUTH	08DB010	499
LIMEKILN CREEK NEAR SLOCAN	08NJ097	499
LINDEMAN CREEK NEAR BENNETT	09AA019	500
LINDQUIST CREEK NEAR CHINOOK COVE	08LB046	500
LINE CREEK AT THE MOUTH	08NK022	501
LINGFIELD CREEK NEAR THE MOUTH	08MA006	501
LINKLATER CREEK NEAR NEWGATE	08NG005	502
LISTER CREEK NEAR CANYON	08NH082	502
LITTLE BULL CREEK NEAR BULL RIVER	08NG062	503
LITTLE CAYUSE CREEK NEAR DEER PARK	08NE063	503
LITTLE HORSEFLY RIVER ABOVE GRUHS LAKE	08KH025	503
LITTLE HORSEFLY RIVER NEAR HORSEFLY	08KH006	504
LITTLE MCPHEE CREEK NEAR BRILLIANT	08NJ150	504
LITTLE MUDDY CREEK BELOW LIGHTNING LAKE	08NL074	505
LITTLE MUDDY CREEK NEAR MANNING PARK	08NL033	505
LITTLE QUALICUM RIVER AT OUTLET OF CAMERON LAK	08HB004	506
LITTLE QUALICUM RIVER NEAR QUALICUM BEACH	08HB029	507
LITTLE SAND CREEK NEAR JAFFRAY	08NG011	507
LITTLE SHEEP CREEK NEAR ROSSLAND	08NE111	508
LITTLE SWIFT RIVER AT THE MOUTH	08KE024	508
LITTLE WEDEENE RIVER BELOW BOWBYES CREEK	08FF003	509
LIZARD CREEK NEAR FERNIE	08NK004	509
LOAKIN CREEK (INDIAN DIVERSION) NEAR SHUSWAP	08LE061	510
LOAKIN CREEK ABOVE INDIAN DIVERSION	08LE033	510
LOCH KATRINE CREEK AT OUTLET OF GRAYSTOKE LAKE	08NM228	511
LOCHORE CREEK NEAR LILLOOET	08MF022	511
LOIS RIVER BELOW SCANLON DAM	08GB003	511
LONG JOHN CREEK AT THE MOUTH	08KE029	512
LONZO CREEK (NORTH FORK) NEAR KILGARD	08MH078	512
LONZO CREEK NEAR ABBOTSFORD	08MH060	513
LOON CREEK NEAR THE MOUTH	08LF071	513
LOUIS CREEK ABOVE MCGILLIVRAY CREEK	08LB061	513
LOUIS CREEK AT BOUNDARY OF RAILWAY BELT	08LB010	514
LOUIS CREEK AT THE MOUTH	08LB072	514
LOUIS CREEK NEAR LOUIS CREEK	08LB049	515
LU CREEK NEAR THE MOUTH	08EE010	515
LUGRIN CREEK NEAR PORT ALBERNI	08HB062	515
LUSSIER CREEK NEAR WASA	08NG016	515
LUSSIER RIVER NEAR CANAL FLATS	08NG044	516
LUXOR CREEK NEAR BRISCO	08NA021	516
LYNN CREEK NEAR NORTH VANCOUVER	08GA012	516
LYTTON CREEK AT LYTTON	08MF083	517
MACAULAY CREEK NEAR EDGEWATER	08NA039	517
MACIVOR CREEK NEAR THE MOUTH	08JA018	518
MACK CREEK NEAR BOSWELL	08NH103	518
MACKAY CREEK AT MONTROYAL BOULEVARD	08GA051	519
MACKAY RIVER AT THE MOUTH	08KH022	519
MACKENZIE CREEK ABOVE FISH AND WILDLIFE DIVERS	08NE125	520
MACKENZIE CREEK NEAR 520 m CONTOUR	08NE122	520
MAGUIRE CREEK NEAR GRASMERE	08NK008	521
MAHOOD CREEK NEAR NEWTON	08MH018	521
MAHOOD CREEK NEAR SULLIVAN	08MH020	522
MAHOOD RIVER AT OUTLET OF MAHOOD LAKE	08LA008	523
MAIN CREEK NEAR THRUMS	08NJ031	524
MALLARD CREEK NEAR PARSON	08NA025	524
MAMQUAM RIVER ABOVE MASHITER CREEK	08GA054	525
MANN CREEK NEAR BLACKPOOL	08LB050	526
MARA CREEK NEAR SICAMOUS	08LC024	526
MARBLE RIVER AT OUTLET OF ALICE LAKE	08HE001	527
MARBLE RIVER AT OUTLET OF VICTORIA LAKE	08HE003	527
MARIA SLOUGH NEAR AGASSIZ	08MF052	528
MARION CREEK (WEST FORK) NEAR CANAL FLATS	08NA083	528
MARION CREEK NEAR CANAL FLATS	08NA082	528
MARK CREEK IN LOT 12434	08NG073	529
MARK CREEK NEAR KIMBERLEY	08NG033	529
MARK CREEK NEAR MARYSVILLE	08NG007	530
MARTELL CREEK NEAR SANCA	08NH063	530
MARTIN CREEK NEAR PRITCHARD	08LE010	530
MASHITER CREEK NEAR SQUAMISH	08GA057	531
MATHER CREEK ABOVE WAIT CREEK	08NG036	531
MATHER CREEK BELOW HOULE CREEK	08NG076	531
MATHER CREEK BELOW LOST DOG CANYON	08NG040	532
MATHER CREEK NEAR THE MOUTH	08NG003	532
MATHERS CREEK NEAR SANDSPIT	08OB003	533
MATTHEW RIVER NEAR BARKERVILLE	08KH005	533
MAUCHLINE CREEK NEAR ARROW PARK	08NE023	533
MAUSE CREEK NEAR FORT STEELE	08NG030	534
MAXAN CREEK ABOVE BULKLEY LAKE	08EE016	534
MAXAN CREEK AT OUTLET OF MAXAN LAKE	08EE019	534
MCAULEY CREEK NEAR LUMBY	08LC008	535
MCCOY CREEK NEAR ALBERNI	08HB068	535
MCCREADY CREEK NEAR BRISCO	08NA042	535
MCDERMID CREEK NEAR KRESTOVA	08NJ167	536
MCDONALD CREEK DIVERSION TO PEACHLAND CREEK	08NM216	536
MCDONALD CREEK NEAR BRIDGE LAKE	08LF096	536
MCDONALD CREEK NEAR KASLO	08NH121	536
MCDOUGALL CREEK NEAR BIRCH ISLAND	08LB076	537
MCDOUGALL CREEK NEAR WESTBANK	08NM014	537
MCFAYDEN CREEK NEAR VALLICAN	08NJ128	537
MCGILLIVRAY CREEK NEAR LILLOOET	08MF016	538
MCGILLIVRAY SLOUGH NEAR YARROW	08MH041	538
MCGREGOR CREEK NEAR BOSWELL	08NH071	538
MCGREGOR CREEK NEAR CRAWFORD BAY	08NH020	539
MCGREGOR RIVER AT LOWER CANYON	08KB003	539
MCGREGOR RIVER AT UPPER CANYON	08KB005	540
MCKALE RIVER NEAR 940 m CONTOUR	08KA009	540
MCKAY CREEK NEAR PAVILION	08MD026	541
MCKINLEY CREEK BELOW OUTLET OF MCKINLEY LAKE	08KH020	541
MCKINNON CREEK ABOVE DIVERSIONS	08EE023	542
MCLEAN CREEK NEAR EDGEWOOD	08NE030	542
MCLEAN CREEK NEAR OKANAGAN FALLS	08NM009	543
MCLEESE CREEK BELOW DUCKWORTH LAKE	08MC032	543
MCLENNAN CREEK NEAR MOUNT LEHMAN	08MH063	543
MCLENNAN RIVER NEAR THE MOUTH	08KA011	544
MCLEOD RIVER AT OUTLET OF CARP LAKE	07EE011	544
MCNAIR CREEK NEAR PORT MELLON	08GA037	544
MCPHEE CREEK NEAR BRILLIANT	08NJ161	545
MCQUARRIE CREEK NEAR TRAIL	08NE024	545
MEADOW CREEK ABOVE JOHN CREEK	08NH124	545
MEADOW CREEK DIVERSION BELOW JOHN CREEK	08NH128	545
MEADOW CREEK NEAR THE MOUTH	08LC005	546
MEDICINE CREEK DIVERSION NEAR ASHCROFT	08LF083	546
MEDICINE CREEK NEAR THE MOUTH	08LF082	547
MELBA CREEK ABOVE WALLOPER CREEK	08LG052	547
MELDRUM CREEK NEAR MELDRUM CREEK	08MC017	548
MELLIN CREEK NEAR DOUGLAS LAKE	08LG036	548
MERCANTILE CREEK NEAR UCLUELET	08HB084	548
MERRY CREEK NEAR CASTLEGAR	08NE032	549
MERRY CREEK NEAR KINNAIRD	08NE076	549
MESILINKA RIVER ABOVE GOPHERHOLE CREEK	07EC003	549
MEZIADIN RIVER AT OUTLET OF MEZIADIN LAKE	08DA003	550
MIAMI CREEK NEAR AGASSIZ (UPPER STATION)	08MG016	550
MIAMI CREEK NEAR HARRISON HOT SPRINGS (LOWER STA	08MG017	550
MICA CREEK NEAR REVELSTOKE	08ND015	551
MICHAEL CREEK NEAR CASTLEGAR	08NE099	551
MICHEL CREEK ABOVE CORBIN CREEK	08NK028	551
MICHEL CREEK BELOW NATAL	08NK020	552
MIDDAY CREEK ABOVE 800 m CONTOUR	08LG059	552
MIDDAY CREEK ABOVE DIVERSIONS	08LG057	552
MIDDAY CREEK NEAR THE MOUTH	08LG056	553
MILKRANCH CREEK NEAR PAVILION	08MD005	553
MILLAR CREEK NEAR OUTLET OF ALPHA LAKE	08GA067	553
MILLER CREEK AT HIGHWAY NO. 93	08NG082	553
MILLER CREEK NEAR 1180 m CONTOUR	08NG083	554
MILLSTONE RIVER AT NANAIMO	08HB032	554
MILLSTONE RIVER NEAR WELLINGTON	08HB027	555
MISSION CREEK ABOVE PEARSON CREEK	08NM233	555
MISSION CREEK BELOW B.M.I.D. INTAKE	08NM239	555
MISSION CREEK NEAR EAST KELOWNA	08NM116	556
MISSION CREEK NEAR RUTLAND	08NM016	557
MISSION CREEK RUTLAND DIVERSION	08NM057	557
MISSIONER CREEK BELOW RESERVOIR LAKE	08MC025	558
MITCHELL RIVER AT OUTLET OF MITCHELL LAKE	08KH014	558
MOBERLY RIVER NEAR FORT ST. JOHN	07FB008	559
MOFFAT CREEK NEAR HORSEFLY	08KH019	559
MOLYBDENITE CREEK NEAR HENDRIX LAKE	08KH024	560
MONASHEE CREEK NEAR CHERRYVILLE	08LC022	560
MONTE CREEK (DIVERSION TO MONTE LAKE) NEAR MONT.	08LE011	561
MONTE CREEK ABOVE MONTE LAKE DIVERSION	08LE103	561
MONTE CREEK NEAR MONTE CREEK	08LE013	562
MONTE CREEK NEAR MONTE LAKE	08LE012	563
MOODY CREEK NEAR CHRISTINA	08NN021	564
MOON CREEK ABOVE DIVERSIONS	08ME024	564
MOORE CREEK AT THE MOUTH	08LG029	564
MOORE CREEK NEAR QUILCHENA	08LG011	565
MOOSE RIVER NEAR RED PASS	08KA008	565
MORE CREEK NEAR THE MOUTH	08CG005	566
MORFEE CREEK AT OUTLET OF MORFEE LAKE	07EE005	567
MORICE RIVER AT THE MOUTH	08ED003	567
MORICE RIVER NEAR HOUSTON	08ED002	567
MORLEY CREEK NEAR NELSON	08NJ049	568
MORRISON RIVER AT OUTLET OF MORRISON LAKE	08EC008	568
MOSLEY CREEK NEAR DUMBELL LAKE	08GD007	569
MOSQUITO CREEK NEAR NORTH VANCOUVER	08GA049	569
MOULTON CREEK NEAR PRITCHARD	08LE014	570
MOUNTAIN SLOUGH NEAR AGASSIZ	08MF054	570
MOYIE RIVER ABOVE NEGRO CREEK	08NH120	571
MOYIE RIVER AT EASTPORT	08NH006	572
MOYIE RIVER AT MOYIE	08NH034	574
MUD CREEK NEAR ELKO	08NG013	574
MULLER CREEK NEAR THE MOUTH	08KB006	575
MUNN CREEK NEAR AINSWORTH	08NH041	575
MUNRO CREEK NEAR PORT COQUITLAM	08MH003	575
MURRAY CREEK ABOVE EAST MURRAY CREEK	08JC008	576
MURRAY CREEK AT 216 STREET, LANGLEY	08MH129	576
MURRAY CREEK AT VANDERHOOF	08JC005	577
MURRAY CREEK NEAR MURRAYVILLE	08MH107	577
MURRAY CREEK NEAR SPENCES BRIDGE	08LF017	578
MURRAY RIVER ABOVE WOLVERINE RIVER	07FB006	578
MURRAY RIVER NEAR THE MOUTH	07FB002	579
MURTLE RIVER ABOVE DAWSON FALLS	08LA004	580
MURTLE RIVER NEAR CLEARWATER STATION	08LA003	581
MUSKEG RIVER NORTH OF JOANNE LAKE	08KC003	581
MUSKWA RIVER NEAR FORT NELSON	10CD001	582
MYERS CREEK AT INTERNATIONAL BOUNDARY	08NN010	583
MYRA DITCH BELOW KLO CREEK	08NM207	584
NADINA RIVER AT OUTLET OF NADINA LAKE	08JB008	585
NADINA RIVER NEAR NORALEE	08JB006	585
NAHATLATCH RIVER AT OUTLET OF FRANCES LAKE	08MF007	586
NAHATLATCH RIVER BELOW TACHEWANA CREEK	08MF065	586
NAHATLATCH RIVER NEAR KEEFERS	08MF008	587
NAHMINT RIVER NEAR PORT ALBERNI	08HB012	587
NAKUSP CREEK NEAR NAKUSP	08NE007	587
NANAIMO RIVER ABOVE ROCKYRUN CREEK	08HB033	588
NANAIMO RIVER NEAR CASSIDY	08HB034	588
NANAIMO RIVER NEAR EXTENSION	08HB005	589
NANIKA RIVER AT OUTLET OF KIDPRICE LAKE	08ED001	590
NANOOSE CREEK AT THE MOUTH	08HB039	590
NARCOSLI CREEK NEAR QUESNEL	08KE003	591
NARROWS CREEK NEAR PROCTER	08NJ020	591
NASCALL RIVER NEAR OCEAN FALLS	08FC002	592
NASS RIVER ABOVE SHUMAL CREEK	08DB001	593
NASS RIVER AT DAMSITE	08DB006	594
NASWHITO CREEK NEAR EWING'S LANDING	08NM047	594
NATHAN CREEK NEAR GLEN VALLEY	08MH084	595
NATION RIVER NEAR FORT ST. JAMES	07ED001	595
NATION RIVER NEAR THE MOUTH	07ED003	596
NAUTLEY RIVER NEAR FORT FRASER	08JB003	597
NAVER CREEK AT HIXON	08KE014	598
NAZKO RIVER ABOVE MICHELLE CREEK	08KF001	598
NECHAKO RIVER AT FORT FRASER	08JA001	599
NECHAKO RIVER AT ISLE PIERRE	08JC002	600
NECHAKO RIVER AT OUTLET OF NATALKUZ LAKE	08JA007	601
NECHAKO RIVER AT VANDERHOOF	08JC001	602
NECHAKO RIVER BELOW BIG BEND CREEK	08JA010	603
NECHAKO RIVER BELOW CHESLATTA FALLS	08JA017	603
NECHAKO RIVER NEAR OOTSA LAKE	08JA011	603
NEDS CREEK NEAR PRITCHARD (LOWER STATION)	08LE015	604
NEDS CREEK NEAR PRITCHARD (UPPER STATION)	08LE034	604
NEHALLISTON CREEK NEAR MOUNT OLIE	08LB043	605
NELLY CREEK NEAR PERRY SIDING	08NJ101	605
NELSON CREEK NEAR BARRIERE	08LB031	605
NEWSOME CREEK AT SORRENTO	08LE068	606
NEWSOME CREEK AT THE MOUTH	08LE080	606
NICKEL PLATE RESERVOIR OUTFLOW	08NL068	606
NICKLEN CREEK NEAR LUMBY (LOWER STATION)	08LC006	607
NICKLEN CREEK NEAR LUMBY (UPPER STATION)	08LC010	607
NICOLA POWER CANAL AT NICOLA	08LG043	607
NICOLA RIVER ABOVE NICOLA LAKE	08LG048	607
NICOLA RIVER AT NICOLA	08LG013	608

NAME	STATION NO.	PAGE
NICOLA RIVER AT OUTLET OF NICOLA LAKE	08LG065	608
NICOLA RIVER NEAR DOUGLAS LAKE	08LG028	608
NICOLA RIVER NEAR LOWER NICOLA	08LG047	609
NICOLA RIVER NEAR MERRITT	08LG007	610
NICOLA RIVER NEAR SPENCES BRIDGE	08LG006	611
NICOLUM CREEK NEAR HOPE	08MF012	612
NICOMEKL RIVER AT 192ND STREET	08MH050	612
NICOMEKL RIVER BELOW MURRAY CREEK	08MH105	613
NIG CREEK NEAR NIG STATION	07FC007	613
NILE CREEK NEAR BOWSER	08HB022	614
NIMPKISH RIVER NEAR ENGLEWOOD	08HF002	614
NISKONLITH CREEK (HOFFMAN AND ROSS DIVERSION) NE	08LE049	615
NISKONLITH CREEK (INDIAN DIVERSION) NEAR SHUSWAP	08LE048	615
NISKONLITH CREEK ABOVE NISKONLITH LAKE	08LE032	616
NISKONLITH CREEK NEAR SHUSWAP	08LE016	616
NISKONLITH LAKE SPILLWAY	08LE050	617
NOBLE CREEK AT THE MOUTH	08NA028	617
NOISET SPRING NEAR SPENCES BRIDGE	08LF050	617
NOONS CREEK AT MERIDIAN SUBSTATION ROAD	08GA065	618
NOONS CREEK NEAR PORT MOODY	08GA052	618
NORBURY CREEK AT OUTLET OF NORBURY LAKES	08NG063	619
NORBURY CREEK NEAR WARDNER	08NG058	619
NORNS CREEK NEAR CASTLEGAR	08NE072	620
NORRISH CREEK NEAR DEWDNEY	08MH056	620
NORTH ALOUETTE RIVER AT 232ND STREET, MAPLE RIDG	08MH006	621
NORTH PAXTON CREEK ABOVE DIVERSIONS	08LE089	622
NORTH THOMPSON RIVER AT BIRCH ISLAND	08LB047	623
NORTH THOMPSON RIVER AT MCLURE	08LB064	624
NORTH THOMPSON RIVER NEAR BARRIERE	08LB022	625
NORTH THOMPSON RIVER NEAR BLACK PINES	08LB015	626
NORTON CREEK NEAR VANCOUVER	08GA006	627
NUGGET CREEK NEAR SHEEP CREEK	08NE053	627
NUSATSUM RIVER NEAR HAGENSBORG	08FB005	627
O'SHEA CREEK NEAR SLOCAN CITY	08NJ121	628
OGDEN CREEK AT OUTLET OF OGDEN LAKE	08ME047	628
OKANAGAN RIVER AT OKANAGAN FALLS	08NM002	629
OKANAGAN RIVER AT PENTICTON	08NM050	631
OKANAGAN RIVER NEAR FAIRVIEW	08NM001	632
OKANAGAN RIVER NEAR OLIVER	08NM085	633
OKANOGAN RIVER AT OROVILLE	08NM127	634
OKANOGAN RIVER NEAR TONASKET	08NM072	636
OKELL CREEK NEAR ERICKSON	08NH105	637
OLALLA CREEK AT OLALLA	08NL011	637
OLIVER CANAL NEAR OLIVER	08NM114	637
OMINECA RIVER ABOVE OSILINKA RIVER	07EC002	638
OMINECA RIVER NEAR GERMANSEN LANDING	07EC001	638
ONE AND ONE QUARTER MILE CREEK NEAR BOSTON BAR	08MF035	639
ONE HUNDRED AND ELEVEN MILE CREEK NEAR 100 MILE	08MC006	639
ONYX CREEK NEAR MAGNA BAY	08LE026	639
OOTISCHENIA CREEK NEAR BRILLIANT	08NE092	640
OOTSA RIVER AT OOTSA LAKE	08JA002	640
OR CREEK NEAR PORT COQUITLAM	08MH004	641
ORDE CREEK NEAR CANYON	08NH081	641
OREGON JACK CREEK NEAR ASHCROFT	08LF019	642
OREGON JACK CREEK NEAR ASHCROFT (LOWER STATION)	08LF039	642
OSBORNE CREEK NEAR THE MOUTH	07FC006	642
OSILINKA RIVER NEAR END LAKE	07EC004	643
OSPIKA RIVER ABOVE ALEY CREEK	07EB002	643
OTTER CREEK AT TULAMEEN	08NL023	644
OTTER CREEK BELOW SPEARING CREEK	08NL060	645
OTTERTAIL RIVER NEAR FIELD	08NA010	645
OYAMA CREEK ABOVE WOOD LAKE IRRIGATION INTAKE	08NM048	645
OYAMA CREEK OYAMA DIVERSION	08NM028	646
OYSTER RIVER BELOW WOODHUS CREEK	08HD011	646
OYSTER RIVER NEAR CAMPBELL RIVER	08HD002	647
PABLO CREEK BELOW WESTWICK LAKE	08MC025	647
PACK RIVER AT OUTLET OF MCLEOD LAKE	07EE010	647
PAGLIARO CREEK NEAR GOLDEN	08NA068	648
PALLANT CREEK NEAR QUEEN CHARLOTTE	08OB003	648
PALLISER RIVER IN LOT 5149	08NF006	649
PALMER CREEK ABOVE DIVERSIONS	08LE093	649
PALMER CREEK NEAR SALMON ARM	08LE072	650
PAQ LAKE CREEK AT MADEIRA PARK	08GB006	650
PARADISE CREEK NEAR LUMBY	08LC015	651
PARK RILL NEAR OLIVER	08NM120	651
PARKER CREEK NEAR THE MOUTH	10CD002	651
PARKS CREEK AT PARKS	08NE097	652
PARSNIP RIVER ABOVE MISINCHINKA RIVER	07EE007	652
PARSNIP RIVER AT PACIFIC GREAT EASTERN RAILWAY (	07EE003	653
PARSNIP RIVER BELOW MISINCHINKA RIVER	07EE006	653
PARSNIP RIVER NEAR FINLAY FORKS	07EE002	654
PASAYTEN RIVER ABOVE CALCITE CREEK	08NL069	654
PASS CREEK NEAR GRAND FORKS	08NN008	654
PATROLAS CREEK NEAR COWICHAN STATION	08HA019	655
PAUL CREEK (INDIAN DIVERSION) NEAR KAMLOOPS	08LB060	655
PAUL CREEK ABOVE PINANTAN LAKE	08LB011	655
PAUL CREEK AT THE OUTLET OF PINANTAN LAKE	08LB012	655
PAUL CREEK NEAR KAMLOOPS (STATION A)	08LB013	656
PAUL CREEK NEAR KAMLOOPS (STATION B)	08LB054	656
PAUL CREEK NEAR KAMLOOPS (STATION C)	08LB055	657
PAUL CREEK NEAR KAMLOOPS (STATION D)	08LB056	657
PAUL CREEK NEAR KAMLOOPS (STATION E)	08LB057	657
PAUL CREEK NEAR KAMLOOPS (STATION F)	08LB027	657
PAVILION CREEK ABOVE DIVERSIONS	08MD026	658
PAVILION CREEK ABOVE PAVILION LAKE	08MD017	658
PAVILION CREEK AT OUTLET OF PAVILION LAKE	08MD018	658
PAVILION CREEK NEAR PAVILION (LOWER STATION)	08MD002	659
PEACE RIVER ABOVE PINE RIVER	07FA004	659
PEACE RIVER AT HUDSON HOPE	07EF001	660
PEACE RIVER NEAR TAYLOR	07FD002	662
PEACHLAND CREEK ABOVE DIVERSIONS	08NM140	663
PEACHLAND CREEK AT THE MOUTH	08NM159	664
PEACHLAND CREEK BELOW DIVERSION TO PEACHLAND LA	08NM201	664
PEACHLAND CREEK DIVERSION TO PEACHLAND LAKE	08NM218	665
PEACHLAND CREEK MUNICIPAL IRRIGATION DIVERSION	08NM030	665
PEACHLAND CREEK NEAR PEACHLAND	08NM029	665
PEACHLAND LAKE RESERVOIR OUTFLOW	08NM202	666
PEARSON CREEK NEAR PROCTER	08NJ067	666
PEARSON CREEK NEAR THE MOUTH	08NM172	667
PEAVINE CREEK NEAR CRANBROOK	08NH122	667
PEDRO CREEK NEAR WINLAW	08NJ058	667
PELKY SPRING NEAR SAANICHTON	08HA007	668
PEMBERTON CREEK NEAR PRITCHARD	08LE017	668
PEND OREILLE RIVER AT INTERNATIONAL BOUNDARY	08NE010	669
PENDLETON CREEK NEAR CHERRY CREEK	08LF020	670
PENNASK CREEK NEAR QUILCHENA	08LG018	671
PENTICTON CREEK ABOVE DENNIS CREEK	08NM162	672
PENTICTON CREEK ABOVE DIVERSION	08NM078	673
PENTICTON CREEK AT THE MOUTH	08NM118	673
PENTICTON CREEK BELOW DIVERSION	08NM031	674
PENTICTON CREEK BELOW HARRIS CREEK	08NM170	674
PENTICTON CREEK LOT 18 DIVERSION	08NM063	675
PENTICTON CREEK MAIN DIVERSION	08NM032	676
PERRY CREEK NEAR PERRY SIDING	08NJ057	677
PERRY CREEK NEAR WYCLIFFE	08NG023	678
PETERMAN CREEK NEAR CRESTON	08NH073	678
PETERS CREEK NEAR SHALALTH	08ME018	678
PETERSON BROOK NEAR BLUEBERRY CREEK	08NE089	679
PETERSON CREEK ABOVE JACKO CREEK	08LE102	679
PETERSON CREEK NEAR BARRIERE	08LB032	679
PETERSON CREEK NEAR KAMLOOPS	08LE035	680
PETERSON CREEK NEAR KNUTSFORD	08LE061	680
PHILLIPPS CREEK AT ROOSVILLE	08NG006	680
PHILLIPPS CREEK NEAR ROOSVILLE (LOWER STAT	08NG047	681
PHILLIPPS CREEK NEAR ROOSVILLE (UPPER STAT	08NG048	682
PIN CREEK NEAR FAUQUIER	08NE050	682
PINCHI CREEK AT PINCHI LAKE	08JE002	683
PINE CREEK NEAR ATLIN	09AA008	683
PINE RIVER AT EAST PINE	07FB001	684
PINKUT CREEK NEAR TINTAGEL	08EC004	685
PITMAN RIVER NEAR THE MOUTH	08CA003	685
PITT RIVER NEAR ALVIN	08MH017	686
PLACE CREEK NEAR BIRKEN	08MG019	686
POOLEY CREEK ABOVE POOLEY DITCH	08NM210	687
PORCUPINE CREEK NEAR CLINTON	08MD003	687
PORT JOHN CREEK NEAR BELLA BELLA	08FD002	688
PORTAGE RIVER NEAR SETON LAKE P.O.	08ME015	688
POUCE COUPE RIVER BELOW HENDERSON CREEK	07FD007	688
POWERS CREEK ABOVE WESTBANK DIVERSION	08NM033	689
POWERS CREEK AT THE MOUTH	08NM157	689
POWERS CREEK BELOW WESTBANK DIVERSION	08NM055	690
POWERS CREEK WESTBANK DIVERSION	08NM034	691
PREACHER CREEK NEAR CRAWFORD BAY	08NH087	691
PREMIER CREEK NEAR QUEEN CHARLOTTE	08OA003	692
PRINGLE CREEK NEAR WESTWOLD	08LE006	692
PROCTER CREEK AT PROCTER	08NJ021	693
PTARMIGAN CREEK NEAR MARA	08LC028	693
PUCKETT CREEK NEAR ASHCROFT	08LF018	694
PUKAIST CREEK BELOW WOODS CREEK	08LF088	694
PUKAIST CREEK NEAR ASCROFT	08LF036	694
PUNTLEDGE RIVER AT COURTENAY	08HB006	695
PUNTLEDGE RIVER NEAR CUMBERLAND	08HB007	696
QUAIL CREEK NEAR HOSMER	08NK007	697
QUALICUM RIVER AT OUTLET OF HORNE LAKE	08HB018	697
QUALICUM RIVER NEAR BOWSER	08HB001	698
QUALITY CREEK NEAR THE MOUTH	07FB005	699
QUALTIERI CREEK NEAR NATAL	08NK014	699
QUAMICHAN CREEK AT OUTLET OF QUAMICHAN LAK	08HA021	699
QUEENS CREEK AT QUEENS BAY	08NH060	700
QUENVILLE CREEK NEAR MERRITT	08LG033	700
QUESNEL RIVER AT LIKELY	08KH001	701
QUESNEL RIVER NEAR QUESNEL	08KH006	703
QUILCHENA CREEK AT QUILCHENA	08LG017	704
QUINN CREEK NEAR CASTLEDALE	08NA026	705
QUINSAM RIVER NEAR CAMPBELL RIVER	08HD005	705
RABBIT RIVER NEAR THE MOUTH	10BE012	706
RACING RIVER NEAR FORT NELSON	10BE002	706
RAFT RIVER NEAR CLEARWATER	08LB017	707
RAGING RIVER NEAR PORT ALICE	08HE004	707
RAINY RIVER AT THE MOUTH	08GA020	708
RAINY RIVER BELOW INTAKE	08GA045	708
RASPBERRY CREEK NEAR THE MOUTH	10CD003	709
RATCHFORD CREEK AT 600 m CONTOUR	08LE086	709
RAYMOND CREEK NEAR ELKO	08NK006	709
RECORD CREEK NEAR ROSSLAND	08NE112	710
RED CANYON CREEK NEAR FLAGSTONE	08NG035	710
REDFISH CREEK NEAR HARROP	08NJ061	711
REED CREEK NEAR PENTICTON	08NM069	711
REG CHRISTIE CREEK NEAR VAVENBY	08LB040	711
REINECKER CREEK NEAR BURTON	08NE034	712
RENATA CREEK NEAR RENATA	08NE028	712
REY CREEK NEAR MAMETTE LAKE	08LG021	712
RIBBLEWORTH CREEK NEAR OYAMA	08NM235	712
RICE CREEK NEAR APPLEDALE	08NJ145	713
RICHARDS CREEK NEAR APPLEDALE	08NJ015	713
RICHFIELD CREEK NEAR TOPLEY	08EE009	713
RICHTER CREEK NEAR OSOYOOS	08NL040	714
RIDDLE CREEK NEAR WEST SUMMERLAND	08NM070	714
RILEY CREEK NEAR LILLOOET	08MF014	715
RINGROSE CREEK ABOVE DIVERSIONS	08NJ060	715
RINGROSE CREEK BELOW CLAY'S DIVERSION	08NJ064	715
ROBBINS CREEK ABOVE DISDERO CREEK	08LE078	716
ROBBINS CREEK NEAR MONTE LAKE (LOWER STATI	08LE018	716
ROBBINS CREEK NEAR ROBBINS RANGE	08LE022	716
ROBERTS CREEK AT ROBERTS CREEK	08GA047	717
ROBERTS SPRING OVERFLOW NEAR WILLIAMS LAKE	08MC031	718
ROBERTSON CREEK NEAR THE MOUTH	08LF093	718
ROCK CREEK NEAR 100 MILE HOUSE	08MC007	718
ROCK CREEK NEAR ROCK CREEK	08NN007	719
ROSEWALL CREEK AT THE MOUTH	08HB037	719
ROSLING SPRING NEAR NELSON	08NJ124	720
ROSS CREEK NEAR ANGLEMONT	08LE029	720
ROSS CREEK NEAR QUEENS BAY	08NH040	720
ROVER CREEK NEAR SOUTH SLOCAN	08NJ111	721
ROY CREEK AT CUMBERLAND ROAD	08HB042	721
RUBBLE CREEK AT OUTLET OF BARRIER LAKE	08GA055	721
RUBBLE CREEK BELOW PARNASSUS CREEK	08GA033	721
RUBBLE CREEK NEAR GARIBALDI	08GA023	722
RUCKS CREEK AT SUNSHINE BAY	08NJ125	722
RUSH CREEK NEAR KAMLOOPS	08LF043	722
RUSHTON CREEK NEAR THE MOUTH	08MH009	723
RUSSEL CREEK NEAR THE MOUTH	08NH133	723
RUSTY CREEK NEAR THE MOUTH	08MD030	723
RUTHERFORD CREEK NEAR PEMBERTON	08MG005	724
RYKERT CREEK NEAR LISTER	08NH013	724
SAAR CREEK NEAR UPPER SUMAS	08MH086	725
SALLOOMT RIVER NEAR HAGENSBORG	08FB004	725
SALMO RIVER NEAR SALMO	08NE074	726
SALMO RIVER NEAR WANETA	08NE044	727
SALMON RIVER ABOVE ADELPHI CREEK	08LE019	728
SALMON RIVER ABOVE CAMPBELL LAKE DIVERSION	08HD015	728
SALMON RIVER ABOVE FOWLER CREEK	08LE083	728
SALMON RIVER ABOVE KERNAGHAN CREEK	08LE088	729

NAME	STATION NO.	PAGE
SALMON RIVER ABOVE MEMEKAY RIVER	08HD007	730
SALMON RIVER ABOVE SALMON LAKE	08LE075	730
SALMON RIVER AT 72 AVENUE, LANGLEY	08MH090	731
SALMON RIVER AT FALKLAND	08LE020	732
SALMON RIVER AT GLENEMMA	08LE065	733
SALMON RIVER AT SEAL KAP FARMS	08MH089	734
SALMON RIVER BELOW SILVER CREEK	08LE090	734
SALMON RIVER NEAR DOUGLAS LAKE	08LE063	734
SALMON RIVER NEAR FALKLAND	08LE064	735
SALMON RIVER NEAR GLENEMMA	08LE037	735
SALMON RIVER NEAR PRINCE GEORGE	08KC001	736
SALMON RIVER NEAR SALMON ARM	08LE021	737
SALMON RIVER NEAR SAYWARD	08HD006	738
SALMON RIVER NEAR WESTWOLD	08LE059	738
SALT LAKE CREEK ABOVE NICOLA LAKE	08LG063	739
SAN JOSE RIVER ABOVE BORLAND CREEK	08MC040	739
SAN JOSE RIVER NEAR LAC LA HACHE	08MC008	739
SAN JUAN RIVER NEAR PORT RENFREW	08HA010	740
SAND CREEK NEAR GALLOWAY	08NG010	741
SAND CREEK NEAR GALLOWAY ABOVE DIVERSION	08NG080	742
SANDELL RIVER NEAR WADHAMS	08FA001	742
SANDY CREEK ABOVE RELKOFF DIVERSION	08NJ157	742
SANDY CREEK NEAR BLEWETT	08NJ131	743
SANDY CREEK NEAR NELSON	08NJ023	743
SARITA RIVER NEAR BAMFIELD	08HB014	744
SAWMILL CREEK NEAR KINCOLITH	08DB004	745
SAWMILL CREEK NEAR NEW DENVER	08NJ010	745
SCHIAVON CREEK BELOW HIGHEST DIVERSION NEAR	08NJ140	745
SCHIAVON CREEK NEAR THRUMS	08NJ095	745
SCHULBUCKHAND CREEK NEAR TERRACE	08EG010	746
SCOTCH CREEK NEAR SORRENTO	08LE030	746
SCOTTIE CREEK ABOVE CHROME CREEK	08LF081	746
SCOTTIE CREEK NEAR CACHE CREEK	08LF021	747
SCOTTY CREEK NEAR RUTLAND	08NM035	747
SCUITTO CREEK NEAR BARNHART VALE	08LE038	748
SELOUS CREEK NEAR NELSON	08NJ098	748
SENTINEL CREEK ABOVE GARIBALDI LAKE	08GA056	749
SERPENTINE RIVER NEAR PORT KELLS	08MH050	749
SETON RIVER BELOW CAYOOSH CREEK	08ME018	750
SETON RIVER NEAR LILLOOET	08ME003	751
SEYMOUR RIVER ABOVE INTAKE	08GA013	752
SEYMOUR RIVER AT SEYMOUR FALLS	08GA021	753
SEYMOUR RIVER AT SEYMOUR FALLS DAM	08GA026	753
SEYMOUR RIVER NEAR NORTH VANCOUVER	08GA030	754
SEYMOUR RIVER NEAR SEYMOUR ARM	08LE027	755
SHANNON CREEK NEAR NELSON	08NJ034	757
SHARP CREEK ON MEARES ISLAND	08HC003	757
SHATFORD CREEK NEAR PENTICTON	08NM037	758
SHAWNIGAN CREEK BELOW SHAWNIGAN LAKE	08HA004	758
SHAWNIGAN CREEK NEAR MILL BAY	08HA033	759
SHEEP CREEK NEAR SALMO	08NE017	760
SHER CREEK NEAR CRESCENT VALLEY	08NJ154	760
SHINGLE CREEK ABOVE KALEDEN DIVERSION	08NM038	760
SHINGLE CREEK AT THE MOUTH	08NM150	761
SHORTS CREEK AT THE MOUTH	08NM151	762
SHUSWAP CREEK NEAR ATHALMER	08NA019	762
SHUSWAP RIVER AT OUTLET OF MABEL LAKE	08LC019	763
SHUSWAP RIVER AT OUTLET OF SUGAR LAKE RESER\	08LC018	764
SHUSWAP RIVER NEAR ENDERBY	08LC002	765
SHUSWAP RIVER NEAR LUMBY	08LC003	767
SHUTTLEWORTH CREEK AT THE MOUTH	08NM149	768
SHUTTLEWORTH CREEK NEAR OKANAGAN FALLS	08NM006	768
SICAMOUS CREEK NEAR SICAMOUS	08LC027	769
SIKANNI CHIEF RIVER NEAR FORT NELSON	10CB001	770
SILVER CREEK NEAR SALMON ARM	08LE043	771
SILVERDALE CREEK NEAR MISSION	08MH081	772
SILVERHOPE CREEK NEAR HOPE	08MF009	772
SILVERTON CREEK NEAR SILVERTON (LOWER STATI(	08NJ005	773
SILVERTON CREEK NEAR SILVERTON (UPPER STATI(	08NJ006	773
SIMILKAMEEN RIVER ABOVE GOODFELLOW CREEK	08NL070	774
SIMILKAMEEN RIVER ABOVE MEMALOOSE CREEK	08NL075	774
SIMILKAMEEN RIVER AT PRINCETON	08NL007	775
SIMILKAMEEN RIVER BELOW CHUWANTEN CREEK	08NL062	776
SIMILKAMEEN RIVER NEAR HEDLEY	08NL038	777
SIMILKAMEEN RIVER NEAR KEREMEOS	08NL004	777
SIMILKAMEEN RIVER NEAR NIGHTHAWK	08NL022	778
SIMMONDS CREEK NEAR CRESTON	08NH077	779
SIMPSON CREEK AT THE MOUTH	08EE012	780
SIMPSON CREEK NEAR NEW DENVER	08NJ029	780
SINCLAIR CREEK AT RADIUM HOT SPRINGS	08NA018	781
SINMAX CREEK BELOW JOHNSON CREEK	08LB004	782
SIRDAR CREEK AT SIRDAR	08NH045	782
SISTERS CREEK BELOW DALE LAKE	08KE030	782
SITKUM CREEK NEAR NELSON	08NJ115	783
SIWASH CREEK NEAR HEFFLEY LAKE	08LB029	783
SIWASH CREEK NEAR PRINCETON	08NL039	783
SIXTY TWO MILE CREEK NEAR EDGEWATER	08NA050	784
SKAGIT RIVER AT INTERNATIONAL BOUNDARY	08PA004	784
SKAGIT RIVER NEAR HOPE	08PA001	785
SKEENA RIVER ABOVE BABINE RIVER	08EB005	786
SKEENA RIVER AT GLEN VOWELL	08EB003	786
SKEENA RIVER AT HAZELTON	08EB001	787
SKEENA RIVER AT USK	08EF001	788
SKEIKUT CREEK ABOVE INTAKE	08LG054	788
SKINS LAKE SPILLWAY, NECHAKO RESERVOIR	08JA013	790
SKOOKUMCHUCK CREEK NEAR SKOOKUMCHUCK	08NG051	791
SLATER CREEK NEAR HARROP	08NJ024	791
SLESSE CREEK NEAR VEDDER CROSSING	08MH056	792
SLIAMMON CREEK NEAR POWELL RIVER	08GB006	793
SLOCAN RIVER AT SLOCAN CITY	08NJ014	793
SLOCAN RIVER NEAR CRESCENT VALLEY	08NJ013	795
SLOK CREEK NEAR PAVILION	08MD024	796
SLOKO RIVER NEAR ATLIN	08BB002	797
SMALLWOOD CREEK NEAR TACHUM	08NJ104	798
SMILING CREEK NEAR PORT COQUITLAM	08MH082	798
SMITH CREEK NEAR HEDLEY	08NL034	799
SMITH RIVER ABOVE SMITH FALLS	10BE013	799
SMOKY CREEK ABOVE DIVERSIONS	08NJ162	800
SMOKY CREEK NEAR SOUTH SLOCAN	08NJ055	800
SODA CREEK NEAR THE MOUTH	08MC030	800
SOLES CREEK NEAR GALENA	08NA045	801
SOMASS RIVER NEAR ALBERNI	08HB017	801
SOMENOS CREEK NEAR DUNCAN	08HA014	802
SOO RIVER NEAR PEMBERTON	08MG007	803
SOOKE RIVER (VICTORIA WATER SUPPLY)	08HA005	804
SOOKE RIVER ABOVE TODD CREEK	08HA016	805
SOOKE RIVER NEAR SOOKE LAKE	08HA006	806
SOUKUP CREEK NEAR HEDLEY	08NL035	807
SOUTH DAWSON CREEK AT THE MOUTH	07FD016	808

NAME	STATION NO.	PAGE
SOUTH PASS CREEK AT THE MOUTH	08LE106	808
SOUTH SISTERS CREEK AT HIGHWAY NO. 97	08KE022	809
SOUTH THOMPSON RIVER AT CHASE	08LE031	810
SOUTH THOMPSON RIVER AT MONTE CREEK	08LE069	811
SPA CREEK ABOVE COWPERSMITH DIVERSION	08LE042	812
SPA CREEK BELOW COWPERSMITH DIVERSION	08LE080	812
SPAHATS CREEK NEAR THE MOUTH	08LA021	813
SPAHOMIN CREEK AT OUTLET OF PENNASK LAKE	08LG020	813
SPAHOMIN CREEK NEAR DOUGLAS LAKE	08LG018	814
SPAHOMIN CREEK NEAR THE MOUTH	08LG060	815
SPANT CREEK AT BAYNE ROAD	08HB043	815
SPATSIZI RIVER NEAR THE MOUTH	08CA001	815
SPILL CREEK AT OUTLET OF SUMMIT LAKE	08DA007	816
SPILLIMACHEEN RIVER NEAR SPILLIMACHEEN	08NA011	817
SPIUS CREEK NEAR CANFORD	08LG008	818
SPLIT CREEK AT THE MOUTH	08NB015	819
SPRING CREEK NEAR NEWTON	08MH019	819
SPRINGER CREEK NEAR SAYWARD	08HD012	820
SPROAT RIVER NEAR ALBERNI	08HB008	821
SPROULE CREEK AT TACHUM	08NJ109	822
SQUAMISH RIVER NEAR BRACKENDALE	08GA022	823
ST. JOHN CREEK NEAR MONTNEY	07FC002	824
ST. MARY RIVER AT WYCLIFFE	08NG012	825
ST. MARY RIVER BELOW MORRIS CREEK	08NG077	826
ST. MARY RIVER NEAR MARYSVILLE	08NG046	827
STAFFORD RIVER NEAR ROY	08GF001	828
STAMP RIVER NEAR ALBERNI	08HB010	829
STAMP RIVER NEAR GREAT CENTRAL	08HB009	831
STAR CREEK NEAR TACHUM	08NJ059	832
STAVE RIVER AT STAVE FALLS	08MH011	832
STAWAMUS RIVER BELOW RAY CREEK	08GA064	832
STEIN RIVER NEAR LYTTON	08MF011	833
STELLAKO RIVER AT GLENANNAN	08JB002	834
STIKINE RIVER ABOVE BUTTERFLY CREEK	08CF001	835
STIKINE RIVER ABOVE GRAND CANYON	08CB001	835
STIKINE RIVER AT TELEGRAPH CREEK	08CE001	836
STIKINE RIVER BELOW SPATSIZI RIVER	08CA002	837
STIKINE RIVER NEAR WRANGELL	08CF003	837
STILL CREEK AT BURNABY	08MH061	838
STIRLING CREEK DIVERSION TO MCCULLOCH RESER	08NM212	838
STITT CREEK AT THE MOUTH	08ND016	839
STODDART CREEK AT OUTLET OF CHARLIE LAKE	07FC004	839
STODDART CREEK NEAR ATHALMER	08NA020	840
STONEY CREEK NEAR BURNABY	08MH117	840
STONY CREEK AT STONY CREEK	08JC013	841
STONY CREEK BELOW TACHICK LAKE	08JC010	841
STOWE CREEK NEAR SAYWARD	08HD009	841
STRAUSS CREEK NEAR NAKUSP	08NE035	842
STUART RIVER NEAR FORT ST. JAMES	08JE001	842
STUDHORSE CREEK NEAR ASHCROFT	08LF040	843
STUMBLES CREEK NEAR LOWER NICOLA	08LG019	844
STUMPLAKE CREEK (BELOW FORKS) NEAR QUILCHEN.	08LG044	844
STUMPLAKE CREEK (NORTH FORK) NEAR QUILCHENA	08LG042	844
STUMPLAKE CREEK BELOW DIVERSION	08LG052	844
STUMPLAKE CREEK NEAR QUILCHENA	08LG030	845
STUMPLAKE CREEK NEAR STUMP LAKE	08LG022	845
STUSSI CREEK AT THE MOUTH	08NE109	845
SUKUNKA RIVER ABOVE CHAMBERLAIN CREEK	07FB007	845
SUKUNKA RIVER NEAR THE MOUTH	07FB003	846
SULLIVAN CREEK NEAR CANYON	08NH115	846
SULLIVAN CREEK NEAR ERICKSON	08NH014	847
SUMALLO RIVER AT THE MOUTH	08PA002	847
SUMALLO RIVER NEAR HOPE	08PA003	848
SUMAS RIVER NEAR HUNTINGDON	08MH029	849
SUMMERS CREEK AT OUTLET OF MISSEZULA LAKE	08NL043	850
SUMMERS CREEK AT THE MOUTH	08NL013	850
SUMMERS CREEK BELOW DILLARD CREEK	08NL054	851
SUMMERS CREEK NEAR PRINCETON	08NL019	851
SUMMERS CREEK NEAR THE MOUTH	08NL053	851
SUMMIT CREEK NEAR CRESTON	08NH100	852
SUNLIGHT CREEK NEAR INVERMERE	08NA054	852
SUPPLY CREEK NEAR BULL RIVER	08NG064	852
SURPRISE CREEK NEAR THE MOUTH	08DA005	852
SUTHERLAND CREEK ABOVE POWER LINE	08NJ153	853
SUTHERLAND CREEK NEAR FIFE	08NN018	853
SUTHERLAND CREEK NEAR NELSON	08NJ107	854
SWEETING CREEK NEAR ARROW PARK	08NE020	854
SWELTZER RIVER AT CULTUS LAKE	08MH033	854
SWELTZER RIVER NEAR SARDIS	08MH012	855
SWIFT CREEK ABOVE BARNETT CREEK	08KA010	855
SWIFT CREEK NEAR THE MOUTH	08KA012	856
SWIFT RIVER NEAR SWIFT RIVER	09AE003	856
SYRINGA CREEK NEAR SYRINGA CREEK	08NE065	857
TA TA CREEK AT TA TA CREEK	08NG026	857
TABOR CREEK ABOVE SWEDE CREEK	08KE032	857
TABOR CREEK AT HIGHWAY NO. 97 NEAR PRINCE G(	08KE028	858
TAHTSA RIVER AT OUTLET OF TAHTSA LAKE	08JA006	858
TAHTSA RIVER NEAR OOTSA LAKE	08JA005	859
TAHUMMING RIVER NEAR TOBA INLET	08GC003	859
TAKU RIVER NEAR TULSEQUAH	08BB001	860
TAMARACK CREEK NEAR SKOOKUMCHUCK	08NG021	861
TAMIHI CREEK NEAR VEDDER CROSSING	08MH037	861
TANK CREEK NEAR NELSON	08NJ071	861
TANZILLA RIVER NEAR TELEGRAPH CREEK	08CB002	862
TAPPEN CREEK AT THE SOURCE	08LE087	862
TAPPEN CREEK NEAR TAPPEN	08LE041	863
TARRYS CREEK NEAR TARRYS	08NJ038	863
TASEKO RIVER AT OUTLET OF TASEKO LAKES	08MA003	864
TASTSQUAN CREEK AT BELLA COOLA	08FB003	864
TEETER CREEK NEAR THE MOUTH	10BE005	864
TEETZEL CREEK ABOVE DIVERSIONS	08NM137	865
TELKWA RIVER BELOW TSAI CREEK	08EE020	865
TEMPLETON RIVER NEAR BRISCO	08NA049	866
TERRACE CREEK NEAR KELOWNA	08NM138	866
TESTALINDEN CREEK IN CANYON	08NM164	867
TESTALINDEN CREEK NEAR OLIVER	08NM130	867
TETACHUCK RIVER NEAR OOTSA LAKE	08JA004	868
TEXAS CREEK NEAR LILLOOET	08MF015	868
THEODOSIA RIVER NEAR BLISS LANDING	08GC004	869
THOMPSON CREEK NEAR KITCHENER	08NH065	870
THOMPSON CREEK NEAR WILLOW POINT	08NJ147	871
THOMPSON RIVER AT KAMLOOPS	08LF023	871
THOMPSON RIVER AT SPENCES BRIDGE	08LF022	872
THOMPSON RIVER NEAR SAVONA	08LF033	873
THOMPSON RIVER NEAR SPENCES BRIDGE	08LF051	874
THOMPSON RIVER NEAR WALHACHIN	08LF043	875
THRUMS CREEK NEAR THRUMS	08NJ102	875
THULME RIVER NEAR PORT SIMPSON	08EG004	876

NAME	STATION NO.	PAGE
THUNDER RIVER NEAR BLUE RIVER	08LB037	877
TINGLEY CREEK AT LOT 9484	08MC035	877
TINGLEY CREEK NEAR CASTLE ROCK	08MC011	877
TOAD RIVER ABOVE NONDA CREEK	10BE004	878
TOAD RIVER NEAR THE MOUTH	10BE010	878
TOBY CREEK NEAR ATHALMER	08NA012	879
TOD CREEK BELOW PROSPECT LAKE	08HA054	879
TOM BROWNE CREEK AT OUTLET OF TOM BROWNE LAK	08CF004	880
TOPPING (STONY) CREEK NEAR TRAIL	08NE033	880
TOWN CREEK AT LILLOOET	08ME013	880
TRAIL CREEK AT FRENCH STREET,TRAIL	08NE116	881
TRANKLE CREEK NEAR BRAESIDE	08JC011	881
TRANQUILLE RIVER NEAR KAMLOOPS	08LF024	881
TRAPPING CREEK AT 1220 m CONTOUR	08NN020	882
TRAPPING CREEK NEAR THE MOUTH	08NN015	883
TREHEARNE CREEK NEAR PRINCETON	08NL037	883
TRENT RIVER NEAR ROYSTON	08HB044	884
TREPANIER CREEK AT THE MOUTH	08NM155	884
TREPANIER CREEK NEAR PEACHLAND	08NM041	885
TRINITY CREEK ABOVE DIVERSION	08LC048	886
TROUT CREEK AT OUTLET OF TROUT LAKE	08GB011	886
TROUT CREEK AT THE MOUTH	08NM158	887
TROUT CREEK BELOW THIRSK LAKE	08NM237	887
TROUT CREEK NEAR FAULDER	08NM054	888
TROUT CREEK NEAR SUMMERLAND	08NM042	888
TROUT CREEK SUMMERLAND DIVERSION	08NM055	889
TROUT RIVER AT KILOMETRE 763.7 ALASKA HIGHWA	10BE007	889
TROZZO CREEK NEAR APPLEDALE	08NJ108	890
TSABLE RIVER NEAR FANNY BAY	08HB024	890
TSILCOH RIVER NEAR THE MOUTH	08JE004	891
TSITIKA RIVER BELOW CATHERINE CREEK	08HF004	891
TSOLUM RIVER NEAR COURTENAY	08HB011	892
TUGWELL CREEK AT THE MOUTH	08HA031	893
TULAMEEN RIVER AT COALMONT	08NL006	893
TULAMEEN RIVER AT PRINCETON	08NL024	894
TULAMEEN RIVER BELOW VUICH CREEK	08NL071	895
TULAMEEN RIVER NEAR PRINCETON	08NL005	895
TULAMEEN RIVER NEAR TULAMEEN	08NL067	896
TUNNEL CREEK NEAR WYNNDEL	08NH080	896
TURNAGAIN RIVER ABOVE SANDPILE CREEK	10BA001	897
TUTSHI RIVER AT OUTLET OF TUTSHI LAKE	09AA013	897
TUYA RIVER NEAR TELEGRAPH CREEK	08CD001	898
TWAAL CREEK NEAR SPENCES BRIDGE	08LF025	899
TWENTYONE MILE CREEK AT 670 m CONTOUR	08MG021	899
TWIN BAYS CREEK NEAR KUSKONOOK	08NH117	900
TWO FORTY CREEK NEAR PENTICTON	08NM240	900
TWO FORTY-ONE CREEK NEAR PENTICTON	08NM241	900
TWO MILE CREEK IN DISTRICT LOT 4834	08EE025	901
TYAUGHTON CREEK NEAR BRIDGE RIVER	08ME007	901
TYHEE CREEK AT OUTLET OF TYHEE LAKE	08EE027	901
UCONA RIVER AT THE MOUTH	08HC002	902
UNION CREEK NEAR PORT SIMPSON	08DB002	902
UNNAMED CREEK AT 116 AVENUE, WHALLEY	08MH134	903
UNNAMED CREEK AT MOUNT SEYMOUR PARKWAY	08GA063	903
UNNAMED CREEK NEAR CRESTON	08NH039	904
UNNAMED CREEK NEAR HATZIC	08MH095	904
UNNAMED CREEK NEAR KILGARD	08MH096	904
UNNAMED CREEK NEAR MCMURDO	08NA061	905
UNNAMED DITCH ABOVE PACKING HOUSE OUTFALLS I	08NM199	905
UNNAMED DITCH AT OLIVER	08NM176	905
UNUK RIVER NEAR STEWART	08DD001	905
VALLEY CREEK NEAR 150 MILE HOUSE	08MC002	906
VAN TINE CREEK NEAR THE MOUTH	08JA014	906
VAN WAGNER CREEK (EAST FORK) NEAR NELSON	08NJ155	907
VAN WAGNER CREEK (WEST FORK) NEAR NELSON	08NJ156	907
VAN WAGNER CREEK ABOVE EAST FORK	08NJ047	908
VAN WAGNER CREEK BELOW EAST FORK	08NJ048	908
VAN WAGNER CREEK NEAR NELSON	08NJ037	908
VANCE CREEK BELOW DEAFIES CREEK	08LC040	909
VASEUX CREEK ABOVE DUTTON CREEK	08NM015	909
VASEUX CREEK ABOVE SOLCO CREEK	08NM171	910
VEITCH CREEK AT THE MOUTH	08NA023	911
VENABLES CREEK ABOVE VENABLES LAKE	08LF068	911
VENABLES CREEK AT OUTLET OF VENABLES LAKE	08LF026	911
VERMILION RIVER NEAR RADIUM HOT SPRINGS	08NF004	912
VERNON CREEK ABOVE DIVERSIONS	08NM008	912
VERNON CREEK AT INLET TO ELLISON LAKE	08NM182	912
VERNON CREEK AT INLET TO WOOD LAKE	08NM009	913
VERNON CREEK AT OUTLET OF ELLISON LAKE	08NM162	913
VERNON CREEK AT OUTLET OF KALAMALKA LAKE	08NM065	914
VERNON CREEK AT OUTLET OF SWALWELL LAKE	08NM022	915
VERNON CREEK AT VERNON	08NM021	916
VERNON CREEK BELOW ARDA DAM	08NM175	916
VERNON CREEK NEAR OKANAGAN CENTRE	08NM043	917
VERNON CREEK NEAR THE MOUTH	08NM160	917
VERNON CREEK OKANAGAN CENTRE DIVERSION	08NM046	918
VERNON IRRIGATION DISTRICT DIVERSION NEAR LA	08LC007	918
VEVEY CREEK NEAR SILVERTON	08NJ012	919
VINCENT CREEK NEAR SLOCAN	08NJ058	920
VIOLET CREEK NEAR GRINDROD (LOWER STATION)	08LC030	920
VIOLET CREEK NEAR GRINDROD (UPPER STATION)	08LC020	920
WADHAMS CREEK AT WADHAMS CANNERY	08FA004	921
WAHLEACH CREEK NEAR LAIDLAW (LOWER STATION)	08MF034	921
WAHLEACH CREEK NEAR LAIDLAW (MIDDLE STATION)	08MF037	922
WAHLEACH CREEK NEAR LAIDLAW (UPPER STATION)	08MF006	922
WAIT CREEK ABOVE BARTHOLOMEW LAKE	08NG071	923
WAIT CREEK IN LOT 7660	08NG072	923
WALKER CREEK NEAR ROBSON	08NE067	924
WALLOPER CREEK ABOVE WALLOPER LAKE	08LG053	924
WANN RIVER NEAR ATLIN	09AA015	925
WANNOCK RIVER AT OUTLET OF OWIKENO LAKE	08FA002	926
WAPITI RIVER ABOVE MISTANUSK CREEK	07GC001	927
WARD CREEK NEAR NELSON	08NJ070	927
WARM SPRINGS CREEK NEAR FAIRMONT	08NA031	927
WARM SPRINGS CREEK NEAR FAIRMONT (LOWER STA'	08NA035	927
WARM SPRINGS CREEK NEAR FAIRMONT (UPPER STA'	08NA036	928
WARREN CREEK NEAR SALMON ARM	08LE023	928
WASHWASH RIVER AT THE MOUTH	08FA006	928
WATCHING CREEK NEAR KAMLOOPS	08LF049	928
WATERFALL CREEK AT NEW HAZELTON	08EE017	929
WATERWHEEL CREEK NEAR NELSON	08NJ038	929
WEAVER CREEK NEAR HARRISON HOT SPRINGS	08MG008	930
WEAVER CREEK NEAR HARRISON HOT SPRINGS (UPPI	08MG010	930
WEETMAN CREEK ABOVE STORAGE DAM	08MC033	930
WEETMAN CREEK BELOW STORAGE DAM	08MC029	931
WENSLEY CREEK NEAR BROUSE	08NE011	931

NAME	STATION NO.	PAGE
WEST CREEK NEAR FORT LANGLEY	08MH098	932
WEST KETTLE RIVER AT WESTBRIDGE	08NN003	932
WEST KETTLE RIVER BELOW CARMI CREEK	08NN022	933
WEST KETTLE RIVER NEAR MCCULLOCH	08NN015	934
WEST ROAD RIVER NEAR CINEMA	08KG001	935
WEST WOOLSEY CREEK AT SOURCE	08ND016	936
WESTBANK CREEK AT THE MOUTH	08NM188	936
WEYMAN CREEK NEAR THE MOUTH	08LE085	936
WHATSHAN RIVER AT NEEDLES	08NE063	937
WHATSHAN RIVER NEAR NEEDLES	08NE078	937
WHIPSAW CREEK BELOW LAMONT CREEK	08NL036	938
WHITE CREEK AT TAPPEN	08LE073	938
WHITE CREEK NEAR CARLIN	08LE039	939
WHITE RIVER NEAR CANAL FLATS	08NF003	940
WHITEMAN CREEK ABOVE BOULEAU CREEK	08NM174	941
WHITEMAN CREEK AT THE MOUTH	08NM180	941
WHITEMAN CREEK NEAR VERNON	08NM048	942
WHITESAIL RIVER NEAR OOTSA LAKE	08JA003	942
WHITEWOOD CREEK AT HIGHWAY BRIDGE NEAR I	08LB019	943
WHITING CREEK NEAR NATAL	08NK017	943
WHONOCK CREEK NEAR WHONOCK	08MH089	944
WIDGEON CREEK NEAR PORT COQUITLAM	08MH010	944
WILD HORSE RIVER NEAR FORT STEELE	08NG052	944
WILDS CREEK (NORTH FORK) NEAR WYNNDEL	08NH044	945
WILDS CREEK (SOUTH FORK) NEAR WYNNDEL	08NH015	945
WILLBAND CREEK AT ABBOTSFORD	08MH051	945
WILLIAMS CREEK NEAR TERRACE	08EG006	945
WILLIAMS LAKE RIVER AT OUTLET OF WILLIAI	08MC005	946
WILLOW RIVER ABOVE HAY CREEK	08KD006	946
WILLOW RIVER AT WELLS	08KD002	947
WILLOW RIVER NEAR WILLOW RIVER	08KD003	947
WILMER CREEK NEAR WILMER	08NA057	948
WILSON CREEK NEAR ROSEBERY	08NJ011	948
WILSON SLOUGH NEAR SARDIS	08MF059	949
WINDERMERE CREEK NEAR WINDERMERE	08NA024	949
WINFIELD CREEK AT INLET TO WOOD LAKE	08NM181	950
WING CREEK NEAR KASLO	08NH048	950
WINLAW CREEK NEAR WINLAW	08NJ120	951
WITCHES BROOK NEAR MERRITT	08LG009	952
WOLF CREEK NEAR TA TA CREEK	08NG032	953
WOLFCUB CREEK NEAR OLIVER	08NM121	953
WOLFE CREEK AT OUTLET OF ISSITZ LAKE	08NL041	953
WOLFE CREEK NEAR PRINCETON	08NL028	954
WOLVERTON CREEK NEAR SLOCAN PARK	08NJ152	954
WOOD RIVER NEAR DONALD	08NC001	955
WRIGHT CREEK AT THE MOUTH	08KC002	955
WYNNDEL CREEK NEAR CRESTON	08NH012	956
YAKOUN RIVER NEAR PORT CLEMENTS	08OA002	956
YALAKOM RIVER ABOVE ORE CREEK	08ME025	957
YALE CREEK AT YALE	08MF031	957
YMIR CREEK NEAR YMIR	08NE036	958
YORKSON CREEK NEAR WALNUT GROVE	08MH097	958
YOUNG CREEK NEAR VANCOUVER	08GA007	959
ZEBALLOS RIVER NEAR ZEBALLOS	08HE006	959
ZIMMER CREEK NEAR CRAWFORD BAY	08NH086	960
ZYMAGOTITZ RIVER NEAR TERRACE	08EG011	961
ZYMOETZ RIVER ABOVE O.K. CREEK	08EF005	962
ZYMOETZ RIVER NEAR TERRACE	08EF003	962

TABLE 8.2.2
Hydrometric Stations in British Columbia

STATION NUMBER INDEX / INDEX NUMBERIQUE DES STATIONS

STATION NO.	NAME	PAGE
07EA001	FINLAY RIVER AT WARE	288
07EA002	KWADACHA RIVER NEAR WARE	478
07EA004	INGENIKA RIVER ABOVE SWANNELL RIVER	404
07EA005	FINLAY RIVER ABOVE AKIE RIVER	285
07EA007	AKIE RIVER NEAR THE 760 m CONTOUR	5
07EB001	FINLAY RIVER AT FINLAY FORKS	287
07EB002	OSPIKA RIVER ABOVE ALEY CREEK	643
07EC001	OMINECA RIVER NEAR GERMANSEN LANDING	638
07EC002	OMINECA RIVER ABOVE OSILINKA RIVER	638
07EC003	MESILINKA RIVER ABOVE GOPHERHOLE CREEK	549
07EC004	OSILINKA RIVER NEAR END LAKE	643
07ED001	NATION RIVER NEAR FORT ST. JAMES	595
07ED003	NATION RIVER NEAR THE MOUTH	596
07EE002	PARSNIP RIVER NEAR FINLAY FORKS	654
07EE003	PARSNIP RIVER AT PACIFIC GREAT EASTERN RAI	653
07EE004	CHICHOUYENILY CREEK NEAR MACKENZIE	167
07EE005	MORFEE CREEK AT OUTLET OF MORFEE LAKE	567
07EE006	PARSNIP RIVER BELOW MISINCHINKA RIVER	653
07EE007	PARSNIP RIVER ABOVE MISINCHINKA RIVER	652
07EE009	CHUCHINKA CREEK NEAR THE MOUTH	171
07EE010	PACK RIVER AT OUTLET OF MCLEOD LAKE	647
07EE011	MCLEOD RIVER AT OUTLET OF CARP LAKE	544
07EF001	PEACE RIVER AT HUDSON HOPE	660
07FA001	HALFWAY RIVER NEAR FARRELL CREEK (LOWER ST	356
07FA003	HALFWAY RIVER ABOVE GRAHAM RIVER	355
07FA004	PEACE RIVER ABOVE PINE RIVER	659
07FA005	GRAHAM RIVER ABOVE COLT CREEK	341
07FA006	HALFWAY RIVER NEAR FARRELL CREEK	356
07FB001	PINE RIVER AT EAST PINE	664
07FB002	MURRAY RIVER NEAR THE MOUTH	579
07FB003	SUKUNKA RIVER NEAR THE MOUTH	846
07FB004	DICKEBUSCH CREEK NEAR THE MOUTH	240
07FB005	QUALITY CREEK NEAR THE MOUTH	699
07FB006	MURRAY RIVER ABOVE WOLVERINE RIVER	578
07FB007	SUKUNKA RIVER ABOVE CHAMBERLAIN CREEK	845
07FB008	MOBERLY RIVER NEAR FORT ST. JOHN	559
07FB009	FLATBED CREEK AT KILOMETRE 110 HERITAGE HI	291
07FC001	BEATTON RIVER NEAR FORT ST. JOHN	49
07FC002	ST. JOHN CREEK NEAR MONTNEY	824
07FC003	BLUEBERRY RIVER BELOW AITKEN CREEK	73
07FC004	STODDART CREEK AT OUTLET OF CHARLIE LAKE	839
07FC005	OSBORNE CREEK NEAR THE MOUTH	642
07FC007	NIG CREEK NEAR NIG STATION	613
07FD001	KISKATINAW RIVER NEAR FARMINGTON	447
07FD002	PEACE RIVER NEAR TAYLOR	662
07FD004	ALCES RIVER AT 22ND BASE LINE	7
07FD005	ALCES RIVER AT SECTION 20	8
07FD007	POUCE COUPE RIVER BELOW HENDERSON CREEK	686
07FD015	DAWSON CREEK ABOVE SOUTH DAWSON CREEK	227
07FD016	SOUTH DAWSON CREEK AT THE MOUTH	806
07GC001	WAPITI RIVER ABOVE MISTAHUSK CREEK	927
08BB001	TAKU RIVER NEAR TULSEQUAH	860
08BB002	SLOKO RIVER NEAR ATLIN	787
08CA001	SPATSIZI RIVER NEAR THE MOUTH	815
08CA002	STIKINE RIVER BELOW SPATSIZI RIVER	837
08CA003	PITMAN RIVER NEAR THE MOUTH	665
08CB001	STIKINE RIVER ABOVE GRAND CANYON	835
08CB002	TANZILLA RIVER NEAR TELEGRAPH CREEK	863
08CC001	KLAPPAN RIVER NEAR TELEGRAPH CREEK	452
08CD001	TUYA RIVER NEAR TELEGRAPH CREEK	898
08CE001	STIKINE RIVER AT TELEGRAPH CREEK	836
08CF001	STIKINE RIVER ABOVE BUTTERFLY CREEK	835
08CF003	STIKINE RIVER NEAR WRANGELL	837
08CG001	ISKUT RIVER BELOW JOHNSON RIVER	410
08CG003	ISKUT RIVER AT OUTLET OF KINASKAN LAKE	409
08CG004	ISKUT RIVER ABOVE SNIPPAKER CREEK	408
08CG005	MORE CREEK NEAR THE MOUTH	566
08CG006	FORREST KERR CREEK ABOVE 460 m CONTOUR	298
08DA003	MEZIADIN RIVER AT OUTLET OF MEZIADIN LAKE	550
08DA005	SURPRISE CREEK NEAR THE MOUTH	852
08DA006	BOWSER RIVER AT BERENDON GLACIER	80
08DA007	SPILL CREEK AT OUTLET OF SUMMIT LAKE	816
08DA008	BOWSER RIVER BELOW BETTY CREEK	80
08DB001	NASS RIVER ABOVE SHUMAL CREEK	603
08DB002	UNION CREEK NEAR PORT SIMPSON	902
08DB003	FIVE HUNDRED CREEK NEAR KINCOLITH	289
08DB004	SAWMILL CREEK NEAR KINCOLITH	745
08DB008	NASS RIVER AT DAMSITE	604
08DB009	LIME CREEK BELOW PATSY CREEK	498
08DB010	LIME CREEK NEAR THE MOUTH	499
08DB011	KITSAULT RIVER ABOVE KLAYDUC CREEK	448
08DC001	AMERICAN CREEK NEAR STEWART	13
08DC006	BEAR RIVER ABOVE BITTER CREEK	46
08DD001	UNUK RIVER NEAR STEWART	905
08EB001	SKEENA RIVER AT HAZELTON	767
08EB003	SKEENA RIVER AT GLEN VOWELL	766
08EB004	KISPIOX RIVER NEAR HAZELTON	448
08EB005	SKEENA RIVER ABOVE BABINE RIVER	766
08EC001	BABINE RIVER AT BABINE	32
08EC002	FULTON RIVER AT THE MOUTH	321
08EC004	PINKUT CREEK NEAR TINTAGEL	665
08EC005	FULTON RIVER AT FULTON LAKE NARROWS	321
08EC008	MORRISON RIVER AT OUTLET OF MORRISON LAKE	568
08EC009	FULTON RIVER AT OUTLET OF CHAPMAN LAKE	321
08EC013	BABINE RIVER AT OUTLET OF NILKITKWA LAKE	33
08ED001	NANIKA RIVER AT OUTLET OF KIDPRICE LAKE	600
08ED002	MORICE RIVER NEAR HOUSTON	567
08ED003	MORICE RIVER AT THE MOUTH	567
08EE001	BULKLEY RIVER NEAR HAZELTON	106
08EE002	BULKLEY RIVER NEAR HUBERT	106
08EE003	BULKLEY RIVER NEAR HOUSTON	107
08EE004	BULKLEY RIVER AT QUICK	105
08EE005	BULKLEY RIVER NEAR SMITHERS	108
08EE006	JOHN BROWN CREEK NEAR SMITHERS	416
08EE007	HOSPITAL SPRING NEAR HAZELTON	391
08EE008	GOATHORN CREEK NEAR TELKWA	332
08EE009	RICHFIELD CREEK NEAR TOPLEY	713
08EE010	KATHLYN CREEK ABOVE SIMPSON CREEK	424
08EE012	SIMPSON CREEK AT THE MOUTH	780
08EE013	BUCK CREEK AT THE MOUTH	103
08EE014	CANYON CREEK NEAR SMITHERS	128
08EE015	FOXY CREEK ABOVE LU CREEK	304
08EE016	LU CREEK NEAR THE MOUTH	515
08EE017	WATERFALL CREEK AT NEW HAZELTON	929
08EE018	MAXAN CREEK ABOVE BULKLEY LAKE	534
08EE019	MAXAN CREEK AT OUTLET OF MAXAN LAKE	534
08EE020	TELKWA RIVER BELOW TSAI CREEK	866
08EE021	CYGNET CREEK AT ADAMS ROAD	224
08EE022	DEEP CREEK BELOW GIBSON CREEK	235

STATION NO.	NAME	PAGE
08EE023	MCKINNON CREEK ABOVE DIVERSIONS	542
08EE024	CYGNET CREEK ABOVE DIVERSIONS	224
08EE025	TWO MILE CREEK IN DISTRICT LOT 4634	901
08EE027	TYHEE CREEK AT OUTLET OF TYHEE LAKE	901
08EF001	SKEENA RIVER AT USK	768
08EF003	ZYMOETZ RIVER NEAR TERRACE	962
08EF004	KITSEGUECLA RIVER NEAR SKEENA CROSSING	450
08EF005	ZYMOETZ RIVER ABOVE O.K. CREEK	962
08EG001	BROWN CREEK NEAR PORT ESSINGTON	100
08EG002	BIG FALLS RIVER NEAR PORT ESSINGTON	62
08EG003	KHTADA RIVER NEAR KWINITSA	443
08EG004	THULME RIVER NEAR PORT SIMPSON	878
08EG006	KITSUMKALUM RIVER NEAR TERRACE	451
08EG007	LAKELSE RIVER NEAR TERRACE	480
08EG008	WILLIAMS CREEK NEAR TERRACE	945
08EG010	SCHULBUCKHAND CREEK NEAR TERRACE	746
08EG011	ZYMAGOTITZ RIVER NEAR TERRACE	961
08EG012	EXCHAMSIKS RIVER NEAR TERRACE	277
08EG013	BONEYARD CREEK AT OUTLET OF RAINBOW LAKE	79
08EG015	DIANA CREEK NEAR PRINCE RUPERT	239
08EG016	KLOIYA RIVER NEAR PRINCE RUPERT	455
08FA001	SANDELL RIVER NEAR WADHAMS	742
08FA002	WANNOCK RIVER AT OUTLET OF OWIKENO LAKE	926
08FA004	WADHAMS CREEK AT WADHAMS CANNERY	921
08FA005	LEVELTON SPRING (WEIR NO. 1) NEAR KATIT VILL	493
08FA006	LEVELTON SPRING (WEIR NO. 2) NEAR KATIT VILL	493
08FA008	WASHWASH RIVER AT THE MOUTH	928
08FA009	GENESEE CREEK AT THE MOUTH	324
08FB001	BELLA COOLA RIVER AT BELLA COOLA	54
08FB002	BELLA COOLA RIVER NEAR HAGENSBORG	55
08FB003	TASTSQUAN CREEK AT BELLA COOLA	864
08FB004	SALLOOMT RIVER NEAR HAGENSBORG	725
08FB005	NUSATSUM RIVER NEAR HAGENSBORG	627
08FB006	ATNARKO RIVER NEAR THE MOUTH	26
08FB007	BELLA COOLA RIVER ABOVE BURNT BRIDGE CREEK	54
08FB008	BELLA COOLA RIVER AT HAGENSBORG	55
08FB009	CLAYTON FALLS CREEK NEAR THE MOUTH	176
08FB010	GIBBS BROOK NEAR HAGENSBORG	324
08FC001	DEAN RIVER NEAR OCEAN FALLS	230
08FC002	MASCALL RIVER NEAR OCEAN FALLS	532
08FC003	DEAN RIVER BELOW TANSWANKET CREEK	230
08FD002	PORT JOHN CREEK NEAR BELLA BELLA	688
08FE001	KEMANO RIVER NEAR BUTEDALE	432
08FE002	KEMANO POWERHOUSE	431
08FE003	KEMANO RIVER ABOVE POWERHOUSE TAILRACE	432
08FF001	KITIMAT RIVER BELOW HIRSCH CREEK	449
08FF002	HIRSCH CREEK NEAR THE MOUTH	376
08FF003	LITTLE WEDEENE RIVER BELOW BOWBYES CREEK	509
08GA001	HIXON CREEK AT OUTLET OF BELKNAP LAKE	377
08GA002	BRANDT CREEK NEAR VANCOUVER (LOWER STATION)	91
08GA003	HIXON CREEK NEAR THE MOUTH	378
08GA004	INDIAN RIVER NEAR THE MOUTH	403
08GA005	INDIAN RIVER NEAR VANCOUVER (UPPER STATION)	403
08GA006	NORTON CREEK NEAR VANCOUVER	627
08GA007	YOUNG CREEK NEAR VANCOUVER	959
08GA008	BRANDT CREEK NEAR VANCOUVER (UPPER STATION)	91
08GA009	HIXON CREEK BELOW ANN LAKE	378
08GA010	CAPILANO RIVER ABOVE INTAKE	130
08GA011	HIXON CREEK TRIBUTARY	379
08GA012	LYNN CREEK NEAR NORTH VANCOUVER	516
08GA013	SEYMOUR RIVER ABOVE INTAKE	752
08GA014	CHEAKAMUS RIVER NEAR CHEEKYE	151
08GA015	FORESTRY CREEK NEAR VANCOUVER	297
08GA016	BRANDYWINE CREEK NEAR BREW	92
08GA017	CHEAKAMUS RIVER AT GARIBALDI	149
08GA018	IOCO NO. 2 CREEK NEAR IOCO	407
08GA019	IOCO NO. 5 CREEK NEAR IOCO	407
08GA020	RAINY RIVER AT THE MOUTH	708
08GA021	SEYMOUR RIVER AT SEYMOUR FALLS	753
08GA022	SQUAMISH RIVER NEAR BRACKENDALE	822
08GA023	RUBBLE CREEK NEAR GARIBALDI	722
08GA024	CHEAKAMUS RIVER NEAR MONS	152
08GA025	BURWELL CREEK NEAR NORTH VANCOUVER	113
08GA026	CAPILANO RIVER (WEST FORK) NEAR NORTH VANCOL	129
08GA027	CAPILANO RIVER (EAST FORK) NEAR NORTH VANCOL	128
08GA028	SEYMOUR RIVER AT SEYMOUR FALLS DAM	753
08GA030	SEYMOUR RIVER NEAR NORTH VANCOUVER	754
08GA031	CAPILANO RIVER AT CANYON	132
08GA033	RUBBLE CREEK BELOW PARNASSUS CREEK	721
08GA035	DAKOTA CREEK NEAR PORT MELLON	226
08GA037	MCNAIR CREEK NEAR PORT MELLON	546
08GA038	CHANCE CREEK NEAR GARIBALDI	143
08GA039	CHEEKYE CREEK NEAR BRACKENDALE	152
08GA040	CULLITON CREEK NEAR BRACKENDALE	222
08GA041	ELAHO RIVER NEAR SQUAMISH	260
08GA043	CHEAKAMUS RIVER NEAR BRACKENDALE	150
08GA045	RAINY RIVER BELOW INTAKE	708
08GA046	CHAPMAN CREEK NEAR WILSON CREEK	144
08GA047	ROBERTS CREEK AT ROBERTS CREEK	717
08GA049	MOSQUITO CREEK NEAR NORTH VANCOUVER	569
08GA050	CHASTER CREEK ABOVE HIGHWAY NO. 101	147
08GA051	LANGDALE CREEK AT HIGHWAY NO. 101 NEAR GIBSI	486
08GA052	NOONS CREEK NEAR PORT MOODY	618
08GA054	MAMQUAM RIVER ABOVE MASHITER CREEK	526
08GA055	RUBBLE CREEK AT OUTLET OF BARRIER LAKE	721
08GA056	SENTINEL CREEK ABOVE GARIBALDI LAKE	749
08GA057	MASHITER CREEK NEAR SQUAMISH	531
08GA058	HOP RANCH CREEK ABOVE DRYDEN CREEK	386
08GA059	COQUITLAM LAKE DIVERSION TO BUNTZEN LAKE	208
08GA060	CHAPMAN CREEK ABOVE SECHELT DIVERSION	144
08GA061	MACKAY CREEK AT MONTROYAL BOULEVARD	519
08GA062	JAMIESON CREEK AT THE MOUTH	413
08GA063	UNNAMED CREEK AT MOUNT SEYMOUR PARKWAY	903
08GA064	STAWAMUS RIVER BELOW RAY CREEK	832
08GA065	NOONS CREEK AT MERIDIAN SUBSTATION ROAD	618
08GA067	MILLAR CREEK NEAR OUTLET OF ALPHA LAKE	553
08GA068	ANMORE CREEK NEAR THE MOUTH	17
08GA071	ELAHO RIVER NEAR THE MOUTH	260
08GA072	CHEAKAMUS RIVER ABOVE MILLAR CREEK	148
08GB003	LOIS RIVER BELOW SCANLON DAM	511
08GB005	SLIAMMON CREEK NEAR POWELL RIVER	783
08GB006	PAQ LAKE CREEK AT MADEIRA PARK	650
08GB007	LANG CREEK NEAR POWELL RIVER	485
08GB009	EARLE CREEK NEAR EGMONT	256
08GB010	HOMESITE CREEK NEAR HALFMOON BAY	388
08GB011	TROUT CREEK AT OUTLET OF TROUT LAKE	886
08GC003	TAHUMMING RIVER NEAR TOBA INLET	859
08GC004	THEODOSIA RIVER NEAR BLISS LANDING	869
08GD003	HOMATHKO RIVER NEAR TATLA LAKE	385

STATION NO.	NAME	PAGE
08GD004	HOMATHKO RIVER AT THE MOUTH	383
08GD005	HOMATHKO RIVER BELOW NUDE CREEK	384
08GD006	HOMATHKO RIVER AT TRAGEDY CANYON	383
08GD007	MOSLEY CREEK NEAR DUMBELL LAKE	568
08GD008	HOMATHKO RIVER AT INLET TO TATLAYOKO LAKE	382
08GD009	HOMATHKO RIVER BELOW NOSTETUKO RIVER	384
08GE001	KLINAKLINI RIVER WEST CHANNEL (OVERFLOW) NEA	453
08GE002	KLINAKLINI RIVER EAST CHANNEL (MAIN) NEAR TH	453
08GF001	STAFFORD RIVER NEAR ROY	826
08GF004	TOM BROWNE CREEK AT OUTLET OF TOM BROWNE LAK	880
08HA001	CHEMAINUS RIVER NEAR WESTHOLME	154
08HA002	COWICHAN RIVER AT LAKE COWICHAN	215
08HA003	KOKSILAH RIVER AT COWICHAN STATION	459
08HA004	SHAWNIGAN CREEK BELOW SHAWNIGAN LAKE	759
08HA005	SOOKE RIVER NEAR SOOKE LAKE	806
08HA006	SOOKE RIVER (VICTORIA WATER SUPPLY)	804
08HA007	PELKY SPRING NEAR SAANICHTON	666
08HA008	BINGS CREEK NEAR DUNCAN	64
08HA010	SAN JUAN RIVER NEAR PORT RENFREW	740
08HA011	COWICHAN RIVER NEAR DUNCAN	216
08HA014	SOMENOS CREEK NEAR DUNCAN	802
08HA015	AVERILL CREEK NEAR DUNCAN	27
08HA016	BINGS CREEK NEAR THE MOUTH	65
08HA017	LEECH RIVER AT THE MOUTH	490
08HA018	SOOKE RIVER ABOVE TODD CREEK	805
08HA019	PATROLAS CREEK NEAR COWICHAN STATION	655
08HA021	QUAMICHAN CREEK AT OUTLET OF QUAMICHAN LAKE	699
08HA022	BONSALL CREEK ABOVE WHITEHOUSE CREEK	79
08HA023	VEITCH CREEK AT THE MOUTH	911
08HA025	DE MAMIEL CREEK AT THE MOUTH	226
08HA026	CUSHEON CREEK AT OUTLET OF CUSHEON LAKE	223
08HA027	DUCK CREEK BELOW OUTLET OF ST. MARY LAKE	246
08HA028	NOBLE CREEK AT THE MOUTH	617
08HA031	TUGWELL CREEK AT THE MOUTH	893
08HA033	SHAWNIGAN CREEK NEAR MILL BAY	759
08HA034	CRAIGFLOWER CREEK BELOW BURNSIDE ROAD, VICTO	217
08HA036	COWAN BROOK NEAR YOUBOU	214
08HA037	COLQUITZ RIVER AT HYACINTH ROAD	188
08HA039	GOLDSTREAM RIVER IN GOLDSTREAM PROVINCIAL PA	338
08HA040	DEFIANCE CREEK NEAR PORT RENFREW	238
08HA042	BINGS CREEK (WEST BRANCH) NEAR DUNCAN	64
08HA043	BINGS CREEK AT DRINKWATER ROAD	64
08HA045	KOKSILAH RIVER BELOW KELVIN CREEK	460
08HA046	DUCK CREEK AT OUTLET OF ST. MARY LAKE	245
08HA047	COLQUITZ RIVER AT VIOLET AVENUE	188
08HA054	TOD CREEK BELOW PROSPECT LAKE	879
08HA055	FULFORD CREEK ON SALTSPRING ISLAND	321
08HA056	GLENORA CREEK NEAR DUNCAN	329
08HB001	QUALICUM RIVER NEAR BOWSER	698
08HB002	ENGLISHMAN RIVER NEAR PARKSVILLE	273
08HB003	HASLAM CREEK NEAR CASSIDY	361
08HB004	LITTLE QUALICUM RIVER AT OUTLET OF CAMERON L	506
08HB005	NANAIMO RIVER NEAR EXTENSION	589
08HB006	PUNTLEDGE RIVER AT COURTENAY	695
08HB007	PUNTLEDGE RIVER NEAR CUMBERLAND	696
08HB008	SPROAT RIVER NEAR ALBERNI	821
08HB009	STAMP RIVER NEAR GREAT CENTRAL	831
08HB010	STAMP RIVER NEAR ALBERNI	829
08HB011	TSOLUM RIVER NEAR COURTENAY	892
08HB012	NAHMINT RIVER NEAR PORT ALBERNI	587
08HB014	SARITA RIVER NEAR BAMFIELD	744
08HB016	ASH RIVER NEAR GREAT CENTRAL	22
08HB017	SOMASS RIVER NEAR ALBERNI	801
08HB018	QUALICUM RIVER AT OUTLET OF HORNE LAKE	697
08HB019	CAMERON RIVER NEAR ALBERNI	117
08HB022	NILE CREEK NEAR BOWSER	614
08HB023	ASH RIVER BELOW MORAN CREEK	21
08HB024	TSABLE RIVER NEAR FANNY BAY	890
08HB025	BROWNS RIVER NEAR COURTENAY	101
08HB027	MILLSTONE RIVER NEAR WELLINGTON	555
08HB028	LITTLE QUALICUM RIVER NEAR QUALICUM BEACH	507
08HB030	ENOS CREEK AT OUTLET OF ENOS LAKE	274
08HB032	MILLSTONE RIVER AT NANAIMO	554
08HB033	NANAIMO RIVER ABOVE ROCKYRUN CREEK	588
08HB034	NANAIMO RIVER NEAR CASSIDY	588
08HB035	CHERRY CREEK NEAR PORT ALBERNI	156
08HB036	BEAVER CREEK NEAR ALBERNI	51
08HB037	ROSEWALL CREEK AT THE MOUTH	719
08HB038	FRENCH CREEK AT COOMBS	319
08HB039	NANOOSE CREEK AT THE MOUTH	590
08HB040	KNARSTON CREEK AT SUPERIOR ROAD	456
08HB041	JUMP CREEK AT THE MOUTH	421
08HB042	ROY CREEK AT CUMBERLAND ROAD	721
08HB043	SPANT CREEK AT BAYNE ROAD	815
08HB044	TRENT RIVER NEAR ROYSTON	884
08HB045	GRAHAM CREEK AT THE MOUTH	340
08HB046	HOGGAN CREEK AT OUTLET OF HOGGAN LAKE	380
08HB047	OGDEN CREEK AT OUTLET OF OGDEN LAKE	628
08HB048	CARNATION CREEK AT THE MOUTH	137
08HB050	BEAVER CREEK ABOVE 150 m CONTOUR	49
08HB051	INDIAN RESERVE CREEK (NORTH FORK) NEAR LANTZ	402
08HB052	INDIAN RESERVE CREEK (SOUTH FORK) NEAR LANTZ	403
08HB054	CHASE RIVER NEAR NANAIMO	147
08HB059	DEER CREEK AT BEAVER CREEK ROAD NEAR ALBERNI	236
08HB062	LUGRIN CREEK NEAR PORT ALBERNI	515
08HB063	KITSUCKSUS CREEK ABOVE CHERRY CREEK	450
08HB064	MERCANTILE CREEK NEAR UCLUELET	548
08HB068	MCCOY CREEK NEAR ALBERNI	535
08HB069	CARNATION CREEK AT 150 m CONTOUR	137
08HB072	FAWN CREEK NEAR ALBERNI	281
08HB073	BEAR CREEK AT SOMERS ROAD NEAR ALBERNI	48
08HB074	CRUICKSHANK RIVER NEAR THE MOUTH	221
08HC001	GOLD RIVER BELOW UCONA RIVER	335
08HC002	UCONA RIVER AT THE MOUTH	902
08HC003	SHARP CREEK ON MEARES ISLAND	757
08HD001	CAMPBELL RIVER AT OUTLET OF CAMPBELL LAKE	121
08HD002	OYSTER RIVER NEAR CAMPBELL RIVER	647
08HD003	CAMPBELL RIVER NEAR CAMPBELL RIVER	122
08HD004	CAMPBELL RIVER NEAR QUINSAM	123
08HD005	QUINSAM RIVER NEAR CAMPBELL RIVER	705
08HD006	SALMON RIVER NEAR SAYWARD	738
08HD007	SALMON RIVER ABOVE MEMEKAY RIVER	730
08HD008	BLACK CREEK NEAR MIRACLE BEACH PARK	68
08HD009	STOWE CREEK NEAR SAYWARD	841
08HD011	OYSTER RIVER BELOW WOODHUS CREEK	646
08HD012	SPRINGER CREEK NEAR SAYWARD	820
08HD013	BARRON CREEK NEAR BLOEDEL	45
08HD014	BLACK CREEK AT STURGESS ROAD	68
08HD015	SALMON RIVER ABOVE CAMPBELL LAKE DIVERSION	728
08HE001	MARBLE RIVER AT OUTLET OF ALICE LAKE	527
08HE002	MARBLE RIVER AT OUTLET OF VICTORIA LAKE	527
08HE003	BENSON RIVER NEAR PORT ALICE	57
08HE004	RAGING RIVER NEAR PORT ALICE	707
08HE006	ZEBALLOS RIVER NEAR ZEBALLOS	959
08HF001	KOKISH RIVER AT BEAVER COVE	457
08HF002	NIMPKISH RIVER NEAR ENGLEWOOD	616
08HF003	KOKISH RIVER BELOW BONANZA RIVER	458
08HF004	TSITIKA RIVER BELOW CATHERINE CREEK	891
08JA001	NECHAKO RIVER AT FORT FRASER	599
08JA002	OOTSA RIVER AT OOTSA LAKE	640
08JA003	WHITESAIL RIVER NEAR OOTSA LAKE	942
08JA004	TETACHUCK RIVER NEAR OOTSA LAKE	866
08JA005	TAHTSA RIVER NEAR OOTSA LAKE	859
08JA006	TAHTSA RIVER AT OUTLET OF TAHTSA LAKE	858
08JA007	NECHAKO RIVER AT OUTLET OF NATALKUZ LAKE	601
08JA009	CHESLATTA RIVER NEAR OOTSA LAKE	158
08JA010	NECHAKO RIVER BELOW BIG BEND CREEK	603
08JA011	NECHAKO RIVER NEAR OOTSA LAKE	603
08JA013	SKINS LAKE SPILLWAY, NECHAKO RESERVOIR	790
08JA014	VAN TINE CREEK NEAR THE MOUTH	908
08JA015	LAVENTIE CREEK NEAR THE MOUTH	489
08JA016	MACIVOR CREEK NEAR THE MOUTH	518
08JA017	NECHAKO RIVER BELOW CHESLATTA FALLS	603
08JB002	STELLAKO RIVER AT GLENANNAN	834
08JB003	NAUTLEY RIVER NEAR FORT FRASER	597
08JB004	ENDAKO RIVER AT ENDAKO	272
08JB006	NADINA RIVER NEAR NORALEE	585
08JB008	NADINA RIVER AT OUTLET OF NADINA LAKE	585
08JC001	NECHAKO RIVER AT VANDERHOOF	602
08JC002	NECHAKO RIVER AT ISLE PIERRE	600
08JC005	CHILAKO RIVER NEAR PRINCE GEORGE	157
08JC006	MURRAY CREEK AT VANDERHOOF	577
08JC007	CLEAR CREEK NEAR VANDERHOOF	178
08JC008	MURRAY CREEK ABOVE EAST MURRAY CREEK	576
08JC009	HOGSBACK CREEK NEAR MAPES	381
08JC010	STONY CREEK BELOW TACHICK LAKE	841
08JC011	TRANKLE CREEK NEAR BRAESIDE	881
08JC013	STONY CREEK AT STONY CREEK	841
08JC014	BEAVERLEY CREEK NEAR THE MOUTH	52
08JC015	BEAVERLEY CREEK AT OUTLET OF NADSILNICH	52
08JD006	DRIFTWOOD RIVER ABOVE KASTBERG CREEK	245
08JE001	STUART RIVER NEAR FORT ST. JAMES	842
08JE002	PINCHI CREEK AT PINCHI LAKE	683
08JE004	TSILCOH RIVER NEAR THE MOUTH	891
08JE005	KAZCHEK CREEK NEAR THE MOUTH	424
08KA001	DORE RIVER NEAR MCBRIDE	242
08KA003	HOLMES RIVER NEAR MCBRIDE	382
08KA004	FRASER RIVER AT HANSARD	308
08KA005	FRASER RIVER AT MCBRIDE	311
08KA007	FRASER RIVER AT RED PASS	314
08KA008	MOOSE RIVER NEAR RED PASS	565
08KA009	MCKALE RIVER NEAR 940 m CONTOUR	540
08KA010	SWIFT CREEK ABOVE BARRETT CREEK	855
08KA011	MCLENNAN RIVER NEAR THE MOUTH	544
08KA012	SWIFT CREEK NEAR THE MOUTH	856
08KB001	FRASER RIVER AT SHELLEY	315
08KB003	MCGREGOR RIVER AT LOWER CANYON	539
08KB005	MCGREGOR RIVER AT UPPER CANYON	540
08KB006	MULLER CREEK NEAR THE MOUTH	575
08KC001	SALMON RIVER NEAR PRINCE GEORGE	736
08KC002	WRIGHT CREEK AT THE MOUTH	955
08KC003	MUSKEG RIVER NORTH OF JOANNE LAKE	581
08KD001	BOWRON RIVER NEAR WELLS	69
08KD002	WILLOW RIVER AT WELLS	947
08KD003	WILLOW RIVER NEAR WILLOW RIVER	947
08KD004	BOWRON RIVER NEAR HANSARD	68
08KD006	WILLOW RIVER ABOVE HAY CREEK	946
08KD007	BOWRON RIVER BELOW BOX CANYON	67
08KE001	FRASER RIVER AT PRINCE GEORGE	313
08KE002	FRASER RIVER AT QUESNEL	313
08KE003	NARCOSLI CREEK NEAR QUESNEL	591
08KE004	LIGHTNING CREEK AT WINGDAM	486
08KE005	CUISSON CREEK NEAR ALEXANDRIA	222
08KE006	AUSTRALIAN CREEK AT AUSTRALIAN	27
08KE008	CUISSON CREEK (SOUTH FORK) NEAR MARGUERI	221
08KE009	COTTONWOOD RIVER NEAR CINEMA	212
08KE014	NAVER CREEK AT HIXON	598
08KE015	CALE CREEK NEAR RED ROCK	116
08KE016	BAKER CREEK AT QUESNEL	38
08KE017	KERSLEY CREEK NEAR QUESNEL	436
08KE018	FRASER RIVER AT SOUTH FORT GEORGE	318
08KE019	HODSON CREEK NEAR NARCOSLI CREEK	360
08KE020	BOUCHIE CREEK ABOVE BOUCHIE LAKE	81
08KE022	SOUTH SISTERS CREEK AT HIGHWAY NO. 97	809
08KE023	ALIX CREEK AT OUTLET OF ALIX LAKES	6
08KE024	LITTLE SWIFT RIVER AT THE MOUTH	508
08KE025	BOUCHIE CREEK BELOW BOUCHIE LAKE	82
08KE026	GENERAL CREEK IN ALEXANDRIA I.R. NO. 3	324
08KE028	TABOR CREEK AT HIGHWAY NO. 97 NEAR PRINC	858
08KE029	LONG JOHN CREEK AT THE MOUTH	512
08KE030	SISTERS CREEK BELOW DALE LAKE	782
08KE031	GENERAL CREEK ABOVE DIVERSION	323
08KE032	TABOR CREEK ABOVE SWEDE CREEK	857
08KF001	NAZKO RIVER ABOVE MICHELLE CREEK	598
08KG001	WEST ROAD RIVER NEAR CINEMA	935
08KG003	BAEZAEKO RIVER AT LOT 10262	35
08KG004	CHARLESON CREEK AT THE MOUTH	148
08KH001	QUESNEL RIVER AT LIKELY	701
08KH002	CARIBOO RIVER NEAR LIKELY	136
08KH003	CARIBOO RIVER BELOW KANGAROO CREEK	134
08KH004	CARIBOO RIVER NEAR BARKERVILLE	135
08KH005	MATTHEW RIVER NEAR BARKERVILLE	533
08KH006	QUESNEL RIVER NEAR QUESNEL	703
08KH007	HORSEFLY RIVER AT HORSEFLY	388
08KH008	LITTLE HORSEFLY RIVER NEAR HORSEFLY	504
08KH010	HORSEFLY RIVER ABOVE MCKINLEY CREEK	388
08KH013	CARIBOO RIVER NEAR KEITHLEY CREEK	136
08KH014	MITCHELL RIVER AT OUTLET OF MITCHELL LAK	558
08KH016	DRAGON CREEK AT OUTLET OF DRAGON LAKE	244
08KH018	BARLOW CREEK NEAR QUESNEL	38
08KH019	MOFFAT CREEK NEAR HORSEFLY	559
08KH020	MCKINLEY CREEK BELOW OUTLET OF MCKINLEY	541
08KH021	BEAVER CREEK AT OUTLET OF BEAVER LAKE	50
08KH022	MACKAY RIVER AT THE MOUTH	519
08KH023	DRAGON CREEK ABOVE DRAGON LAKE	244
08KH024	MOLYBDENITE CREEK NEAR HENDRIX LAKE	560
08KH026	LITTLE HORSEFLY RIVER ABOVE GRUMS LAKE	503
08LA001	CLEARWATER RIVER NEAR CLEARWATER STATION	180

STATION NO.	NAME	PAGE
08LA002	HEMP CREEK NEAR RAFT RIVER	372
08LA003	MURTLE RIVER NEAR CLEARWATER STATION	561
08LA004	MURTLE RIVER ABOVE DAWSON FALLS	560
08LA005	BRIDGE CREEK NEAR 100 MILE HOUSE	94
08LA006	CANIM RIVER AT OUTLET OF CANIM LAKE	124
08LA007	CLEARWATER RIVER AT OUTLET OF CLEARWATER LAKE	176
08LA008	MAHOOD RIVER AT OUTLET OF MAHOOD LAKE	523
08LA009	CLEARWATER RIVER AT INLET TO CLEARWATER LAKE	177
08LA013	CLEARWATER RIVER AT OUTLET OF HOBSON LAKE	178
08LA015	CANIM CREEK AT OUTLET OF SPOUT LAKE	124
08LA016	CANDLE CREEK NEAR CLEARWATER STATION	124
08LA018	HOBSON CREEK BELOW BOIS GRENIER CREEK	360
08LA019	BOSS CREEK ABOVE HENDRIX CREEK	81
08LA020	BRIDGE CREEK AT OUTLET OF HORSE LAKE	83
08LA021	SPAHATS CREEK NEAR THE MOUTH	813
08LA022	BRADLEY CREEK NEAR FOREST GROVE	90
08LA023	HENDRIX CREEK BELOW STINSON CREEK	373
08LA024	HENDRIX CREEK AT OUTLET OF HENDRIX LAKE	372
08LB001	CANILTY CREEK NEAR LOUIS CREEK	115
08LB003	EDWARDS CREEK NEAR HEFFLEY CREEK	259
08LB004	HEFFLEY CREEK NEAR KAMLOOPS	371
08LB005	HEFFLEY CREEK NEAR HEFFLEY CREEK	371
08LB006	HEFFLEY CREEK (ANDERSON DIVERSION) NEAR HEFFL	370
08LB007	HEFFLEY CREEK (CRAWSHAW DITCH) NEAR HEFFLEY C	370
08LB008	JAMIESON CREEK ABOVE BRITISH COLUMBIA FRUITLA	412
08LB009	JAMIESON CREEK BELOW BRITISH COLUMBIA FRUITLA	413
08LB010	LOUIS CREEK AT BOUNDARY OF RAILWAY BELT	514
08LB011	PAUL CREEK ABOVE PINANTAN LAKE	655
08LB012	PAUL CREEK AT THE OUTLET OF PINANTAN LAKE	655
08LB013	PAUL CREEK NEAR KAMLOOPS (STATION A)	656
08LB015	NORTH THOMPSON RIVER NEAR BLACK PINES	626
08LB017	RAFT RIVER NEAR CLEARWATER	707
08LB019	WHITEWOOD CREEK AT HIGHWAY BRIDGE NEAR BLACK	943
08LB020	BARRIERE RIVER AT THE MOUTH	42
08LB021	BARRIERE RIVER (EAST FORK) NEAR BARRIERE	41
08LB022	NORTH THOMPSON RIVER NEAR BARRIERE	625
08LB023	EDWARDS CREEK (LYON'S DIVERSION) NEAR HEFFLEY	259
08LB024	FISHTRAP CREEK NEAR MCLURE	288
08LB025	KNOUFF CREEK BELOW SULLIVAN LAKE	457
08LB027	PAUL CREEK NEAR KAMLOOPS (STATION F)	657
08LB028	KNOUFF CREEK AT OUTLET OF SULLIVAN LAKE	457
08LB029	SIWASH CREEK NEAR HEFFLEY LAKE	783
08LB030	LEONIE CREEK NEAR BARRIERE	492
08LB031	NELSON CREEK NEAR BARRIERE	605
08LB032	PETERSON CREEK NEAR BARRIERE	679
08LB037	THUNDER RIVER NEAR BLUE RIVER	877
08LB038	BLUE RIVER NEAR BLUE RIVER	71
08LB040	REG CHRISTIE CREEK NEAR VAVENBY	711
08LB041	CHUCK CREEK NEAR VAVENBY	172
08LB042	LEMIEUX CREEK NEAR MOUNT OLIE	481
08LB043	MCMALLISTON CREEK NEAR MOUNT OLIE	505
08LB044	CHU CHUA CREEK NEAR CHU CHUA	171
08LB045	DARLINGTON CREEK NEAR CHINOOK COVE	228
08LB046	LINDQUIST CREEK NEAR CHINOOK COVE	500
08LB047	NORTH THOMPSON RIVER AT BIRCH ISLAND	623
08LB049	LOUIS CREEK NEAR LOUIS CREEK	515
08LB050	MANN CREEK NEAR BLACKPOOL	528
08LB051	BARRIERE RIVER NEAR BARRIERE (AT DAM)	44
08LB052	BARRIERE RIVER B.C.E.R. FLUME NEAR BARRIERE	43
08LB054	PAUL CREEK NEAR KAMLOOPS (STATION B)	656
08LB055	PAUL CREEK NEAR KAMLOOPS (STATION C)	657
08LB056	PAUL CREEK NEAR KAMLOOPS (STATION D)	657
08LB057	PAUL CREEK NEAR KAMLOOPS (STATION E)	657
08LB058	COLD CREEK NEAR KAMLOOPS (UPPER STATION)	184
08LB059	COLD CREEK NEAR KAMLOOPS (LOWER STATION)	184
08LB060	PAUL CREEK (INDIAN DIVERSION) NEAR KAMLOOPS	656
08LB061	BADGER CREEK NEAR HEFFLEY CREEK	34
08LB062	BADGER CREEK NEAR LOUIS CREEK	34
08LB064	NORTH THOMPSON RIVER AT MCLURE	624
08LB065	CHRISTIAN CREEK NEAR HEFFLEY CREEK	170
08LB066	BARRIERE RIVER BELOW LEE CREEK	43
08LB068	BARRIERE RIVER BELOW SPRAGUE CREEK	44
08LB070	HASCHEAK CREEK BELOW RUSSELL CREEK	360
08LB071	HASCHEAK CREEK ABOVE RUSSELL CREEK	360
08LB072	LOUIS CREEK AT THE MOUTH	514
08LB075	MCDOUGALL CREEK NEAR BIRCH ISLAND	537
08LB076	HARPER CREEK NEAR THE MOUTH	357
08LB077	BONE CREEK NEAR BLUE RIVER	78
08LB078	LEMIEUX CREEK NEAR THE MOUTH	481
08LB079	AVOLA CREEK(SOUTH FORK)NEAR AVOLA	26
08LB081	LOUIS CREEK ABOVE MCGILLIVRAY CREEK	513
08LC002	SHUSWAP RIVER NEAR ENDERBY	768
08LC003	SHUSWAP RIVER NEAR LUMBY	767
08LC004	BRASH CREEK NEAR ENDERBY	92
08LC005	BESSETTE CREEK NEAR LUMBY	58
08LC006	DUTEAU CREEK NEAR LAVINGTON	253
08LC007	VERNON IRRIGATION DISTRICT DIVERSION NEAR LAV	918
08LC008	NICKLEN CREEK NEAR LUMBY (LOWER STATION)	607
08LC009	MCAULEY CREEK NEAR LUMBY	535
08LC010	NICKLEN CREEK NEAR LUMBY (UPPER STATION)	607
08LC014	DUTEAU CREEK AT OUTLET OF HADDO LAKE	252
08LC015	PARADISE CREEK NEAR LUMBY	651
08LC017	DERMONT CREEK NEAR LAVINGTON	238
08LC018	SHUSWAP RIVER AT OUTLET OF SUGAR LAKE RESERVO	784
08LC019	SHUSWAP RIVER AT OUTLET OF MABEL LAKE	783
08LC020	VIOLET CREEK NEAR GRINDROD (UPPER STATION)	920
08LC021	LARCH HILLS CREEK NEAR MARA	488
08LC022	MONASHEE CREEK NEAR CHERRYVILLE	580
08LC023	HUMMING BIRD CREEK NEAR SICAMOUS	384
08LC024	MARA CREEK NEAR SICAMOUS	526
08LC025	BLURTON CREEK NEAR MARA	74
08LC026	JOHNSON CREEK NEAR MARA	418
08LC027	SICAMOUS CREEK NEAR SICAMOUS	769
08LC028	PTARMIGAN CREEK NEAR MARA	693
08LC029	BONGARD CREEK NEAR MARA	79
08LC030	VIOLET CREEK NEAR GRINDROD (LOWER STATION)	920
08LC031	FORTUNE CREEK AT STEPNEY	300
08LC033	CREIGHTON CREEK NEAR LUMBY	219
08LC034	FERRY CREEK NEAR LUMBY	282
08LC035	FORTUNE CREEK NEAR ARMSTRONG	300
08LC036	GARDOM CREEK NEAR GRINDROD	322
08LC039	BESSETTE CREEK ABOVE BEAVERJACK CREEK	56
08LC040	VANCE CREEK BELOW DEAFIES CREEK	908
08LC042	BESSETTE CREEK ABOVE LUMBY LAGOON OUTFALL	58
08LC046	CREIGHTON CREEK NEAR CREIGHTON VALLEY	219
08LC048	TRINITY CREEK ABOVE DIVERSION	888
08LC049	CHERRY CREEK NEAR CHERRYVILLE	165
08LD001	ADAMS RIVER NEAR SQUILAX	2
08LD002	HIUIHILL CREEK ABOVE DIVERSIONS	376

STATION NO.	NAME	PAGE
08LD004	SINMAX CREEK BELOW JOHNSON CREEK	782
08LD005	HOMESTAKE CREEK NEAR LOUIS CREEK	386
08LD006	HIUIHILL CREEK NEAR SQUILAX (LOWER STATION)	377
08LD009	FISHER CREEK AT WEST BOUNDARY D.L. 3599	288
08LE001	BOLEAN CREEK AT FALKLAND	74
08LE002	CAMPBELL CREEK NEAR BARNHART VALE	120
08LE003	CAMPBELL CREEK NEAR MONTE CREEK	121
08LE004	CANOE CREEK NEAR SALMON ARM	126
08LE005	CHASE CREEK NEAR CHASE	147
08LE006	PRINGLE CREEK NEAR WESTWOLD	692
08LE007	EAGLE RIVER NEAR SICAMOUS	256
08LE008	INGRAM CREEK NEAR THE MOUTH	404
08LE009	JACKO CREEK NEAR KAMLOOPS	412
08LE010	MARTIN CREEK NEAR PRITCHARD	530
08LE011	MONTE CREEK (DIVERSION TO MONTE LAKE) NEAR	561
08LE012	MONTE CREEK NEAR MONTE LAKE	563
08LE013	MONTE CREEK NEAR MONTE CREEK	562
08LE014	MOULTON CREEK NEAR PRITCHARD	570
08LE015	NEDS CREEK NEAR PRITCHARD (LOWER STATION)	604
08LE016	NISKONLITH CREEK NEAR SHUSWAP	615
08LE017	PEMBERTON CREEK NEAR PRITCHARD	668
08LE018	ROBBINS CREEK NEAR MONTE LAKE (LOWER STATIO	716
08LE019	SALMON RIVER ABOVE ADELPHI CREEK	728
08LE020	SALMON RIVER AT FALKLAND	732
08LE021	SALMON RIVER NEAR SALMON ARM	737
08LE022	ROBBINS CREEK NEAR ROBBINS RANGE	716
08LE023	WARREN CREEK NEAR SALMON ARM	928
08LE024	EAGLE RIVER NEAR MALAKWA	255
08LE025	CELISTA CREEK NEAR ALBAS	143
08LE026	CRAZY CREEK AT TAFT	218
08LE027	SEYMOUR RIVER NEAR SEYMOUR ARM	756
08LE028	ONYX CREEK NEAR MAGNA BAY	639
08LE029	ROSS CREEK NEAR ANGLEMONT	720
08LE030	SCOTCH CREEK NEAR SORRENTO	746
08LE031	SOUTH THOMPSON RIVER AT CHASE	810
08LE032	NISKONLITH CREEK ABOVE NISKONLITH LAKE	616
08LE033	LOAKIN CREEK ABOVE INDIAN DIVERSION	510
08LE034	NEDS CREEK NEAR PRITCHARD (UPPER STATION)	604
08LE035	PETERSON CREEK NEAR KAMLOOPS	680
08LE036	SCUITTO CREEK NEAR BARNHART VALE	748
08LE037	CAMPBELL CREEK NEAR BARNHART VALE (UPPER STA	120
08LE038	BLAIR CREEK NEAR FALKLAND (LOWER STATION)	70
08LE039	WHITE CREEK NEAR CARLIN	939
08LE041	TAPPEN CREEK NEAR TAPPEN	883
08LE042	SPA CREEK ABOVE COWPERSMITH DIVERSION	812
08LE043	SILVER CREEK NEAR SALMON ARM	771
08LE044	GORDON CREEK NEAR SALMON ARM	340
08LE045	GRIER CREEK NEAR SALMON ARM	347
08LE048	NISKONLITH CREEK (INDIAN DIVERSION) NEAR SHU	615
08LE049	NISKONLITH CREEK (HOFFMAN AND ROSS DIVERSIO	615
08LE050	NISKONLITH LAKE SPILLWAY	617
08LE051	LOAKIN CREEK (INDIAN DIVERSION) NEAR SHUSWAP	510
08LE054	EAST CANOE CREEK NEAR SALMON ARM	257
08LE055	FARRELL CREEK NEAR TAPPEN (LOWER STATION)	280
08LE056	FARRELL CREEK NEAR TAPPEN (UPPER STATION)	280
08LE058	CAMPBELL CREEK BELOW SCUITTO CREEK	119
08LE059	SALMON RIVER NEAR WESTWOLD	738
08LE060	SPA CREEK BELOW COWPERSMITH DIVERSION	812
08LE061	PETERSON CREEK NEAR KNUTSFORD	680
08LE063	SALMON RIVER NEAR DOUGLAS LAKE	734
08LE064	SALMON RIVER NEAR FALKLAND	735
08LE065	SALMON RIVER AT GLENEMMA	733
08LE066	NEWSOME CREEK AT SORRENTO	606
08LE067	FOWLER CREEK NEAR FALKLAND	304
08LE069	SOUTH THOMPSON RIVER AT MONTE CREEK	811
08LE072	PALMER CREEK NEAR SALMON ARM	650
08LE073	WHITE CREEK AT TAPPEN	939
08LE074	CANOE CREEK ABOVE EAST CANOE CREEK	125
08LE075	SALMON RIVER ABOVE SALMON LAKE	730
08LE077	CORNING CREEK NEAR SQUILAX	210
08LE078	ROBBINS CREEK ABOVE DISDERO CREEK	716
08LE080	NEWSOME CREEK AT THE MOUTH	606
08LE081	CHUM CREEK NEAR SQUILAX	172
08LE086	RATCHFORD CREEK AT 800 m CONTOUR	708
08LE087	TAPPEN CREEK AT THE SOURCE	882
08LE088	SALMON RIVER ABOVE KERNAGHAN CREEK	729
08LE089	SALMON RIVER ABOVE FOWLER CREEK	729
08LE090	SALMON RIVER BELOW SILVER CREEK	734
08LE091	KERNAGHAN CREEK ABOVE DIVERSIONS	436
08LE092	GORDON CREEK ABOVE DIVERSIONS	339
08LE093	PALMER CREEK ABOVE DIVERSIONS	649
08LE094	BOLEAN CREEK NEAR THE MOUTH	75
08LE095	WEYMAN CREEK NEAR THE MOUTH	936
08LE096	FOWLER CREEK AT 540 m CONTOUR	303
08LE097	SALMON RIVER NEAR GLENEMMA	735
08LE099	NORTH PAXTON CREEK ABOVE DIVERSIONS	622
08LE101	KNIGHT CREEK ABOVE DIVERSIONS	456
08LE102	PETERSON CREEK ABOVE JACKO CREEK	679
08LE103	MONTE CREEK ABOVE MONTE LAKE DIVERSION	561
08LE104	HLINA CREEK BELOW RASMUSSEN CREEK	378
08LE105	HLINA CREEK AT THE MOUTH	379
08LE106	SOUTH PASS CREEK AT THE MOUTH	808
08LE107	HUDSON CREEK NEAR THE MOUTH	393
08LE108	EAST CANOE CREEK ABOVE DAM	257
08LF001	BARNES CREEK NEAR ASHCROFT	39
08LF002	BONAPARTE RIVER BELOW CACHE CREEK	76
08LF003	BOTANIE CREEK NEAR LYTTON	81
08LF004	CACHE CREEK NEAR CACHE CREEK	114
08LF005	CHERRY CREEK NEAR KAMLOOPS	155
08LF006	CORNWALL CREEK NEAR ASHCROFT	211
08LF007	CRISS CREEK NEAR SAVONA	220
08LF008	BEATON CREEK NEAR KAMLOOPS	48
08LF009	DEADMAN RIVER ABOVE WALHACHIN FLUME	228
08LF010	DEADMAN RIVER (WALHACHIN FLUME)	226
08LF011	DEADMAN RIVER BELOW WALHACHIN FLUME	229
08LF013	HAT CREEK NEAR ASHCROFT	363
08LF014	HAT CREEK - HAMMOND DIVERSION TO OREGON JACK	361
08LF015	HAT CREEK NEAR CACHE CREEK	362
08LF017	MURRAY CREEK NEAR SPENCES BRIDGE	578
08LF018	PUCKETT CREEK NEAR ASHCROFT	694
08LF019	OREGON JACK CREEK NEAR ASHCROFT	642
08LF020	PENDLETON CREEK NEAR CHERRY CREEK	670
08LF021	SCOTTIE CREEK NEAR CACHE CREEK	747
08LF022	THOMPSON RIVER AT SPENCES BRIDGE	872
08LF023	THOMPSON RIVER AT KAMLOOPS	871
08LF024	TRANQUILLE RIVER NEAR KAMLOOPS	881
08LF025	TWAAL CREEK NEAR SPENCES BRIDGE	889
08LF026	VENABLES CREEK AT OUTLET OF VENABLES LAKE	911
08LF027	DEADMAN RIVER ABOVE CRISS CREEK	228

STATION NO.	NAME	PAGE
08LF026	DURAND CREEK BELOW GUICHON DIVERSION . .	714
08LF030	DURAND CREEK (FERGUSON DIVERSION) NEAR S	639
08LF032	DURAND CREEK NEAR SAVONA	677
08LF033	THOMPSON RIVER NEAR SAVONA	367
08LF034	HAT CREEK ABOVE MARBLE CANYON	368
08LF035	HAT CREEK NEAR CAROUILE	458
08LF036	PUKAIST CREEK NEAR ASCROFT	548
08LF037	CUTOFF VALLEY CREEK NEAR CLINTON	318
08LF038	CLINTON CREEK AT CLINTON	417
08LF039	OREGON JACK CREEK NEAR ASHCROFT (LOWER S	295
08LF040	STUDHORSE CREEK NEAR ASHCROFT	365
08LF041	ALKALI CREEK NEAR KAMLOOPS	558
08LF042	RUSH CREEK NEAR KAMLOOPS	647
08LF043	THOMPSON RIVER NEAR WALHACHIN	280
08LF047	FIFTYSEVEN CREEK NEAR CLINTON	79
08LF048	FIFTYNINE CREEK NEAR CHASM	831
08LF049	WATCHING CREEK NEAR KAMLOOPS	800
08LF050	NOISET SPRING NEAR SPENCES BRIDGE	718
08LF051	THOMPSON RIVER NEAR SPENCES BRIDGE . . .	543
08LF060	BONAPARTE RIVER NEAR CACHE CREEK	830
08LF061	HAT CREEK NEAR UPPER HAT CREEK	677
08LF062	BONAPARTE RIVER NEAR BRIDGE LAKE	188
08LF063	GLADWIN CREEK NEAR LYTTON	60
08LF064	CLINTON CREEK NEAR THE MOUTH	458
08LF065	BONAPARTE RIVER ABOVE CLINTON CREEK . . .	60
08LF066	BONAPARTE RIVER ABOVE LOON CREEK	739
08LF067	BARNARD CREEK NEAR ASHCROFT	298
08LF068	VENABLES CREEK ABOVE VENABLES LAKE . . .	302
08LF069	PUKAIST CREEK BELOW WOODS CREEK	658
08LF070	BARNES CREEK ABOVE PENSE LAKE DIVERSION	587
08LF071	LOON CREEK NEAR THE MOUTH	325
08LF079	CHERRY CREEK NEAR THE MOUTH	553
08LF080	FIFTYNINE CREEK NEAR CLINTON	174
08LF081	AMBUSTEN CREEK NEAR THE MOUTH	125
08LF082	MEDICINE CREEK NEAR THE MOUTH	241
08LF083	MEDICINE CREEK DIVERSION NEAR ASHCROFT .	322
08LF084	ANDERSON CREEK ABOVE DIVERSIONS	60
08LF085	CHERRY CREEK BELOW PENDLETON CREEK . . .	172
08LF088	GLADWIN CREEK ABOVE DIVERSIONS	307
08LF089	SCOTTIE CREEK ABOVE CHROME CREEK	653
08LF090	HAT CREEK ABOVE HARRY CREEK	658
08LF091	HELLER CREEK ABOVE DIVERSIONS	319
08LF092	HAT CREEK ABOVE ANDERSON CREEK	476
08LF093	ROBERTSON CREEK NEAR THE MOUTH	447
08LF094	JOE ROSS CREEK NEAR THE MOUTH	490
08LF095	MCDONALD CREEK NEAR BRIDGE LAKE	786
08LG001	CHARTRAND CREEK NEAR MAMETTE LAKE POST C	541
08LG002	GREENSTONE CREEK NEAR MAMETTE LAKE . . .	302
08LG003	GUICHON CREEK ABOVE MAMIT LAKE	60
08LG004	GUICHON CREEK NEAR LOWER NICOLA	658
08LG005	MEADOW CREEK NEAR THE MOUTH	68
08LG006	NICOLA RIVER NEAR SPENCES BRIDGE	723
08LG007	NICOLA RIVER NEAR MERRITT	322
08LG008	SPIUS CREEK NEAR CANFORD	480
08LG009	WITCHES BROOK NEAR MERRITT	98
08LG010	COLDWATER RIVER AT MERRITT	141
08LG011	MOORE CREEK NEAR QUILCHENA	751
08LG013	NICOLA RIVER AT NICOLA	95
08LG014	GUICHON CREEK DIVERSION TO TUNKWA LAKE .	97
08LG015	CLAPPERTON CREEK NEAR NICOLA	353
08LG016	PENNASK CREEK NEAR QUILCHENA	901
08LG017	QUILCHENA CREEK AT QUILCHENA	385
08LG018	SPAHOMIN CREEK NEAR DOUGLAS LAKE	240
08LG019	STUMBLES CREEK NEAR LOWER NICOLA	460
08LG020	SPAHOMIN CREEK AT OUTLET OF PENNASK LAKE	96
08LG021	REY CREEK NEAR MAMETTE LAKE	668
08LG022	STUMPLAKE CREEK NEAR STUMP LAKE	678
08LG023	CHARTRAND CREEK NEAR SAVONA	750
08LG024	CHARTRAND CREEK DIVERSION TO TUNKWA LAKE	323
08LG025	HOWARTH CREEK NEAR MERRITT	85
08LG026	HOWARTH CREEK (WEST FORK) NEAR MERRITT .	564
08LG027	KWINSHATIN CREEK NEAR MERRITT	857
08LG028	NICOLA RIVER NEAR DOUGLAS LAKE	18
08LG029	MOORE CREEK AT THE MOUTH	63
08LG030	STUMPLAKE CREEK NEAR QUILCHENA	206
08LG032	GUICHON CREEK BELOW QUENVILLE CREEK . .	308
08LG033	QUENVILLE CREEK NEAR MERRITT	309
08LG035	DANISH CREEK NEAR MERRITT	922
08LG036	MELLIN CREEK NEAR DOUGLAS LAKE	586
08LG041	GUICHON CREEK AT OUTLET OF MAMIT LAKE .	587
08LG042	STUMPLAKE CREEK (NORTH FORK) NEAR QUILCH	772
08LG043	NICOLA POWER CANAL AT NICOLA	633
08LG044	STUMPLAKE CREEK (BELOW FORKS) NEAR QUILC	612
08LG047	NICOLA RIVER NEAR LOWER NICOLA	461
08LG048	COLDWATER RIVER NEAR BROOKMERE	718
08LG049	NICOLA RIVER ABOVE NICOLA LAKE	888
08LG051	AXE CREEK AT LOT 781	538
08LG052	MELBA CREEK ABOVE WALLOPER CREEK	318
08LG053	WALLOPER CREEK ABOVE WALLOPER LAKE . . .	261
08LG054	SKEIKUT CREEK ABOVE INTAKE	173
08LG055	BETHSAIDA CREEK ABOVE HIGHLAND VALLEY RD	411
08LG056	GUICHON CREEK ABOVE TUNKWA LAKE DIVERSIO	611
08LG057	MIDDAY CREEK ABOVE DIVERSIONS	174
08LG058	MIDDAY CREEK NEAR THE MOUTH	206
08LG059	MIDDAY CREEK ABOVE 600 m CONTOUR	272
08LG060	SPAHOMIN CREEK NEAR THE MOUTH	957
08LG062	STUMPLAKE CREEK BELOW DIVERSION	12
08LG063	SALT LAKE CREEK ABOVE NICOLA LAKE	4
08LG064	BEAK CREEK AT THE MOUTH	821
08LG065	NICOLA RIVER AT OUTLET OF NICOLA LAKE .	317
08LG066	CHATAWAY CREEK NEAR THE MOUTH	386
08LG067	GUICHON CREEK AT THE MOUTH	922
08MA001	CHILKO RIVER NEAR REDSTONE	639
08MA002	CHILKO RIVER AT OUTLET OF CHILKO LAKE .	306
08MA003	TASEKO RIVER AT OUTLET OF TASEKO LAKES .	261
08MA006	LINGFIELD CREEK NEAR THE MOUTH	17
08MB001	BAMBRICK CREEK NEAR BIG CREEK	628
08MB002	ANAHIM CREEK NEAR ALEXIS CREEK	570
08MB003	CHILCOTIN RIVER NEAR REDSTONE	949
08MB004	CHILANKO RIVER NEAR REDSTONE	162
08MB005	CHILCOTIN RIVER BELOW BIG CREEK	207
08MB006	BIG CREEK ABOVE GROUNDHOG CREEK	517
08MB007	BIG CREEK BELOW GRAVEYARD CREEK	586
08MC001	BORLAND CREEK NEAR 150 MILE HOUSE	173
08MC002	VALLEY CREEK NEAR 150 MILE HOUSE	478
08MC003	HAWKS CREEK NEAR OCHILTREE	183
08MC004	CHIMNEY CREEK NEAR WILLIAMS LAKE	365
08MC005	WILLIAMS LAKE RIVER AT OUTLET OF WILLIAM	348
08MC006	SAN JOSE RIVER NEAR LAC LA HACHE	497
08MC007	ROCK CREEK NEAR 100 MILE HOUSE	251
08MC008	ONE HUNDRED AND ELEVEN MILE CREEK NEAR 100 ›	251
08MC011	TINGLEY CREEK NEAR CASTLE ROCK	252
08MC012	HAWKS CREEK NEAR WILLIAMS LAKE	673
08MC013	HAWKS CREEK NEAR SODA CREEK	382
08MC014	KNIFE CREEK AT 141 MILE HOUSE	364
08MC017	MELDRUM CREEK NEAR MELDRUM CREEK	694
08MC018	FRASER RIVER NEAR MARGUERITE	323
08MC019	JONES CREEK NEAR 150 MILE HOUSE	161
08MC022	FORBES CREEK NEAR LAC LA HACHE	642
08MC024	HAWKS CREEK ABOVE LYNE CREEK	643
08MC025	MISSIONER CREEK BELOW RESERVOIR LAKE . .	6
08MC026	PABLO CREEK BELOW WESTWICK LAKE	722
08MC027	FIVE MILE CREEK BELOW CARIBOO BILL LAKE .	675
08MC028	BORLAND CREEK ABOVE EAGLE MEADOWS DAM . .	285
08MC029	WEETMAN CREEK BELOW STORAGE DAM	284
08MC030	SODA CREEK NEAR THE MOUTH	938
08MC031	ROBERTS SPRING OVERFLOW NEAR WILLIAMS LAKE	617
08MC032	MCLEESE CREEK BELOW DUCKWORTH LAKE . . .	674
08MC033	WEETMAN CREEK ABOVE STORAGE DAM	77
08MC035	TINGLEY CREEK AT LOT 9494	364
08MC036	CHIMNEY CREEK AT DOG CREEK ROAD	77
08MC037	BORLAND CREEK BELOW WISE CREEK	327
08MC038	KNIFE CREEK BELOW OUTLET OF SQUAWK LAKE .	162
08MC039	BORLAND CREEK BELOW VALLEY CREEK	75
08MC040	SAN JOSE RIVER ABOVE BORLAND CREEK . . .	75
08MC041	FORBES CREEK NEAR THE MOUTH	38
08MD001	FOUNTAIN CREEK NEAR LILLOOET	911
08MD002	PAVILION CREEK NEAR PAVILION (LOWER STATION	694
08MD003	PORCUPINE CREEK NEAR CLINTON	38
08MD004	GILLON CREEK NEAR PAVILION	613
08MD005	MILKRANCH CREEK NEAR PAVILION	158
08MD006	CLARK CREEK NEAR PAVILION	284
08MD008	CANOE CREEK NEAR GANG RANCH	12
08MD009	DOG CREEK NEAR DOG CREEK	547
08MD010	GASPARD CREEK AT GANG RANCH	546
08MD011	BIG BAR CREEK NEAR JESMOND	13
08MD012	CHURN CREEK NEAR GANG RANCH	155
08MD013	FRASER RIVER AT BIG BAR CREEK	327
08MD016	PAVILION CREEK AT OUTLET OF PAVILION LAKE	748
08MD017	PAVILION CREEK ABOVE PAVILION LAKE . . .	362
08MD018	FRENCH BAR CREEK NEAR BIG BAR CREEK . . .	372
08MD019	KOSTERING CREEK NEAR JESMOND	382
08MD020	KIRKPATRICK CREEK NEAR ALKALI LAKE . . .	718
08MD023	LEE CREEK NEAR PAVILION	415
08MD024	SLOK CREEK NEAR PAVILION	536
08MD025	MCKAY CREEK NEAR PAVILION	146
08MD026	FOUNTAIN CREEK ABOVE KWOTLENEMO LAKE . .	348
08MD027	BIG BAR CREEK BELOW KOSTERING CREEK . . .	348
08MD028	PAVILION CREEK ABOVE DIVERSIONS	352
08MD029	BLACKHILL CREEK NEAR PAVILION	546
08MD030	RUSTY CREEK NEAR THE MOUTH	611
08MD032	GASPARD CREEK BELOW OUTLET OF GASPARD LAKE	610
08MD033	LEE CREEK ABOVE DIVERSIONS	618
08ME001	BRIDGE RIVER NEAR SHALALTH	952
08ME002	CAYOOSH CREEK NEAR LILLOOET	187
08ME003	SETON RIVER NEAR LILLOOET	565
08ME004	BRIDGE RIVER AT LAJOIE FALLS	608
08ME005	BRIDGE RIVER NEAR GOLD BRIDGE	351
08ME006	GUN CREEK NEAR MINTO CITY	174
08ME007	TYAUGHTON CREEK NEAR BRIDGE RIVER	671
08ME011	HURLEY RIVER NEAR BRALORNE	704
08ME012	DICKEY CREEK NEAR LILLOOET	614
08ME013	TOWN CREEK AT LILLOOET	644
08ME014	BRIDGE RIVER BELOW TYAUGHTON CREEK . . .	613
08ME015	PORTAGE RIVER NEAR SETON LAKE P.O	712
08ME016	PETERS CREEK NEAR SHALALTH	645
08ME018	SETON RIVER BELOW CAYOOSH CREEK	146
08ME022	GATES RIVER BELOW HAYLMORE CREEK	146
08ME023	BRIDGE RIVER (SOUTH BRANCH) BELOW BRIDGE GL/	383
08ME024	MOON CREEK ABOVE DIVERSIONS	292
08ME025	YALAKOM RIVER ABOVE ORE CREEK	478
08MF001	ANDERSON RIVER NEAR BOSTON BAR	609
08MF002	BOULDER CREEK NEAR LAIDLAW	564
08MF003	COQUIHALLA RIVER NEAR HOPE	645
08MF004	FRASER RIVER ABOVE THOMPSON RIVER	350
08MF005	FRASER RIVER AT HOPE	700
08MF006	WAHLEACH CREEK NEAR LAIDLAW (UPPER STATION)	225
08MF007	NAHATLATCH RIVER AT OUTLET OF FRANCES LAKE	548
08MF008	NAHATLATCH RIVER NEAR KEEFERS	349
08MF009	SILVERHOPE CREEK NEAR HOPE	644
08MF011	STEIN RIVER NEAR LYTTON	607
08MF012	NICOLUM CREEK NEAR HOPE	644
08MF013	LALUWISSIN CREEK NEAR LYTTON	609
08MF014	RILEY CREEK NEAR LILLOOET	188
08MF015	TEXAS CREEK NEAR LILLOOET	607
08MF016	MCGILLIVRAY CREEK NEAR LILLOOET	28
08MF017	FRASER RIVER BELOW SETON RIVER	547
08MF018	ELK CREEK NEAR ROSEDALE	824
08MF020	CINQUEFOIL CREEK NEAR LILLOOET	768
08MF021	IZMAN CREEK NEAR LYTTON	60
08MF022	LOCHORE CREEK NEAR LILLOOET	349
08MF023	CINQUEFOIL DIVERSION TO LOCHORE CREEK . .	552
08MF027	COPELAND SPRINGS NEAR LILLOOET	553
08MF030	EMORY CREEK NEAR CHOATE	552
08MF031	YALE CREEK AT YALE	615
08MF032	AMERICAN CREEK NEAR HOPE	644
08MF033	AINSLIE CREEK NEAR BOSTON BAR	739
08MF034	WAHLEACH CREEK NEAR LAIDLAW (LOWER STATION)	45
08MF035	FRASER RIVER NEAR AGASSIZ	609
08MF036	HOPE SLOUGH NEAR ROSEDALE	148
08MF037	WAHLEACH CREEK NEAR LAIDLAW (MIDDLE STATION)	350
08MF039	ONE AND ONE QUARTER MILE CREEK NEAR BOSTON B	161
08MF040	FRASER RIVER ABOVE TEXAS CREEK	159
08MF046	ELK CREEK AT PRAIRIE CENTRAL ROAD	664
08MF049	ANNIS DITCH NEAR ROSEDALE	501
08MF052	MARIA SLOUGH NEAR AGASSIZ	37
08MF054	MOUNTAIN SLOUGH NEAR AGASSIZ	13
08MF058	WILSON SLOUGH NEAR SARDIS	159
08MF061	CHILLIWACK CREEK NEAR CHILLIWACK	158
08MF062	COQUIHALLA RIVER BELOW NEEDLE CREEK . . .	158
08MF063	LYTTON CREEK AT LYTTON	61
08MF065	NAHATLATCH RIVER BELOW TACHEWANA CREEK .	61
08MF066	CINQUEFOIL CREEK ABOVE DIVERSIONS	60
08MF067	KOPP CREEK ABOVE MENZ CREEK	905
08MG001	CHEHALIS RIVER NEAR HARRISON MILLS . . .	366
08MG003	GREEN RIVER NEAR PEMBERTON	188
08MG004	GREEN RIVER NEAR RAINBOW	948
08MG005	LILLOOET RIVER NEAR PEMBERTON	729

STATION NO.	NAME	PAGE
08MG006	RUTHERFORD CREEK NEAR PEMBERTON	724
08MG007	SOO RIVER NEAR PEMBERTON	803
08MG008	BIRKENHEAD RIVER AT MOUNT CURRIE	67
08MG009	WEAVER CREEK NEAR HARRISON HOT SPRINGS	930
08MG010	WEAVER CREEK NEAR HARRISON HOT SPRINGS (UPPER	930
08MG013	HARRISON RIVER NEAR HARRISON HOT SPRINGS	356
08MG017	MIAMI CREEK NEAR HARRISON HOT SPRINGS (LOWER S	550
08MG018	MIAMI CREEK NEAR AGASSIZ (UPPER STATION)	550
08MG019	PLACE CREEK NEAR BIRKEN	668
08MG021	TWENTYONE MILE CREEK AT 670 m CONTOUR	888
08MG023	CHEHALIS RIVER BELOW STATLU CREEK	153
08MH001	CHILLIWACK RIVER AT VEDDER CROSSING	166
08MH002	COQUITLAM RIVER AT PORT COQUITLAM	209
08MH003	MUNRO CREEK NEAR PORT COQUITLAM	575
08MH004	OR CREEK NEAR PORT COQUITLAM	641
08MH005	ALOUETTE RIVER NEAR HANEY	11
08MH006	NORTH ALOUETTE RIVER AT 232ND STREET, MAPLE RI	621
08MH008	GURNEY CREEK NEAR PORT COQUITLAM	353
08MH009	RUSHTON CREEK NEAR THE MOUTH	723
08MH010	WIDGEON CREEK NEAR PORT COQUITLAM	944
08MH011	STAVE RIVER AT STAVE FALLS	832
08MH012	SWELTZER RIVER NEAR SARDIS	855
08MH014	ALOUETTE RIVER AT OUTLET OF ALOUETTE LAKE	11
08MH016	CHILLIWACK RIVER AT OUTLET OF CHILLIWACK LAKE	164
08MH017	PITT RIVER NEAR ALVIN	666
08MH018	MAHOOD CREEK NEAR NEWTON	521
08MH019	SPRING CREEK NEAR NEWTON	819
08MH020	MAHOOD CREEK NEAR SULLIVAN	522
08MH021	BRUNETTE RIVER NEAR BUENA VISTA	103
08MH022	DEER CREEK AT BURNABY LAKE	236
08MH024	FRASER RIVER AT MISSION	312
08MH026	BRUNETTE RIVER AT SAPPERTON	102
08MH029	SUMAS RIVER NEAR HUNTINGDON	849
08MH033	SWELTZER RIVER AT CULTUS LAKE	854
08MH037	TAMIHI CREEK NEAR VEDDER CROSSING	861
08MH045	BOUCHIER CREEK NEAR HATZIC	82
08MH049	CLAYBURN CREEK NEAR CLAYBURN (UPPER STATION)	176
08MH050	NICOMEKL RIVER AT 192ND STREET	612
08MH051	WILLBAND CREEK AT ABBOTSFORD	945
08MH055	CHILLIWACK RIVER BELOW SLESSE CREEK	167
08MH056	SLESSE CREEK NEAR VEDDER CROSSING	782
08MH058	NORRISH CREEK NEAR DEWDNEY	620
08MH059	CAMPBELL RIVER NEAR WHITE ROCK	123
08MH060	SERPENTINE RIVER NEAR PORT KELLS	749
08MH061	STILL CREEK AT BURNABY	836
08MH066	CLAYBURN CREEK AT CLAYBURN ROAD, MATSQUI	175
08MH070	DEROCHE CREEK AT DEROCHE	239
08MH072	FROSST CREEK NEAR LINDELL BEACH	318
08MH073	GIFFORD SLOUGH NEAR MATSQUI	325
08MH076	KANAKA CREEK NEAR WEBSTER CORNERS	432
08MH077	KENWORTHY CREEK NEAR HATZIC	433
08MH079	LONZO CREEK (NORTH FORK) NEAR KILGARD	512
08MH080	LONZO CREEK NEAR ABBOTSFORD	513
08MH081	MCGILLIVRAY SLOUGH NEAR YARROW	538
08MH082	MCLENNAN CREEK NEAR MOUNT LEHMAN	543
08MH084	NATHAN CREEK NEAR GLEN VALLEY	585
08MH086	SAAR CREEK NEAR UPPER SUMAS	725
08MH089	SALMON RIVER AT SEAL KAP FARMS	734
08MH090	SALMON RIVER AT 72 AVENUE, LANGLEY	731
08MH091	SILVERDALE CREEK NEAR MISSION	772
08MH092	SMILING CREEK NEAR PORT COQUITLAM	786
08MH095	UNNAMED CREEK NEAR HATZIC	904
08MH096	UNNAMED CREEK NEAR KILGARD	904
08MH097	YORKSON CREEK NEAR WALNUT GROVE	954
08MH098	WEST CREEK NEAR FORT LANGLEY	932
08MH099	WHONOCK CREEK NEAR WHONOCK	944
08MH103	CHILLIWACK RIVER ABOVE SLESSE CREEK	163
08MH104	ANDERSON CREEK AT THE MOUTH	14
08MH105	NICOMEKL RIVER BELOW MURRAY CREEK	613
08MH107	MURRAY CREEK NEAR MURRAYVILLE	577
08MH108	JACOBS CREEK ABOVE JACOBS LAKE	412
08MH112	DEER LAKE BROOK AT BURNABY	238
08MH117	STONEY CREEK NEAR BURNABY	840
08MH123	CAMPBELL RIVER ABOVE SAM HILL CREEK	121
08MH126	FRASER RIVER AT PORT MANN PUMPING STATION	312
08MH129	MURRAY CREEK AT 216 STREET, LANGLEY	576
08MH134	UNNAMED CREEK AT 114 AVENUE, WHALLEY	903
08MH138	HAIRSINE CREEK NEAR THE MOUTH	354
08MH139	HYDE CREEK AT DE BOVILLE SLOUGH	396
08NA001	BUGABOO CREEK NEAR SPILLIMACHEEN	104
08NA002	COLUMBIA RIVER AT NICHOLSON	188
08NA005	HORSETHIEF CREEK NEAR WILMER	389
08NA006	KICKING HORSE RIVER AT GOLDEN	443
08NA007	KICKING HORSE RIVER NEAR FIELD	445
08NA008	KICKING HORSE RIVER AT NO. 2 TUNNEL	444
08NA009	FORSTER CREEK NEAR WILMER	298
08NA010	OTTERTAIL RIVER NEAR FIELD	645
08NA011	SPILLIMACHEEN RIVER NEAR SPILLIMACHEEN	817
08NA012	TOBY CREEK NEAR ATHALMER	878
08NA014	DUTCH CREEK NEAR FAIRMONT HOT SPRINGS	252
08NA015	FIELD SPRING (NO. 1) NEAR FIELD	283
08NA016	FIELD SPRING (NO. 2) NEAR FIELD	283
08NA017	FIELD SPRING (NO. 3) NEAR FIELD	284
08NA018	SINCLAIR CREEK AT RADIUM HOT SPRINGS	781
08NA019	SHUSWAP CREEK NEAR ATHALMER	762
08NA020	STODDART CREEK NEAR ATHALMER	840
08NA021	LUXOR CREEK NEAR BRISCO	516
08NA022	KINDERSLEY CREEK NEAR BRISCO	446
08NA023	FRALING CREEK NEAR SPILLIMACHEEN	304
08NA024	WINDERMERE CREEK NEAR WINDERMERE	949
08NA025	MALLARD CREEK NEAR PARSON	524
08NA026	GOLDIE CREEK NEAR INVERMERE	336
08NA028	QUINN CREEK NEAR CASTLEDALE	705
08NA029	BIRCHLANDS CREEK NEAR GOLDEN	65
08NA030	COOLSPRING CREEK NEAR FAIRMONT HOT SPRINGS	208
08NA031	WARM SPRINGS CREEK NEAR FAIRMONT	927
08NA034	WARM SPRINGS CREEK NEAR FAIRMONT (UPPER STATI	926
08NA035	WARM SPRINGS CREEK NEAR FAIRMONT (LOWER STATI	927
08NA036	BEARD CREEK NEAR PARSON	47
08NA037	CARBONATE CREEK NEAR MCMURDO	133
08NA038	HOGRANCH CREEK AT PARSON	381
08NA039	MACAULAY CREEK NEAR EDGEWATER	517
08NA041	HORSE CREEK NEAR GOLDEN	387
08NA042	MCCREADY CREEK NEAR BRISCO	538
08NA043	EAST SPRING CREEK NEAR WINDERMERE	257
08NA045	COLUMBIA RIVER NEAR FAIRMONT HOT SPRINGS	204
08NA046	SOLES CREEK NEAR GALENA	801
08NA047	CEDARED CREEK NEAR SPILLIMACHEEN	142
08NA048	HATCH CREEK NEAR SPILLIMACHEEN	365

STATION NO.	NAME	PAGE
08NA049	TEMPLETON RIVER NEAR BRISCO	866
08NA050	SIXTY TWO MILE CREEK NEAR EDGEWATER	784
08NA051	FRANCES CREEK NEAR WILMER	305
08NA052	COLUMBIA RIVER NEAR EDGEWATER	203
08NA053	KICKING HORSE RIVER BELOW SHERBROOKE CREE	444
08NA054	SUNLIGHT CREEK NEAR INVERMERE	852
08NA055	GOLDIE CREEK (SOUTH FORK) NEAR INVERMERE	336
08NA056	DRY GULCH CREEK NEAR RADIUM JUNCTION	245
08NA057	WILMER CREEK NEAR WILMER	946
08NA058	HOTSPRING CREEK NEAR FAIRMONT HOT SPRINGS	392
08NA060	BRUCE CREEK NEAR WILMER	101
08NA061	UNNAMED CREEK NEAR MCMURDO	905
08NA062	MARION CREEK NEAR CANAL FLATS	529
08NA063	MARION CREEK (WEST FORK) NEAR CANAL FLATS	528
08NA067	BOWER CREEK NEAR THE MOUTH	87
08NA068	PAGLIARO CREEK NEAR GOLDEN	648
08NB001	BLAEBERRY RIVER NEAR GOLDEN	70
08NB002	HOSPITAL CREEK NEAR GOLDEN	390
08NB003	BEAVER RIVER NEAR ROGERS	51
08NB004	EDELWEISS CREEK NEAR GOLDEN	258
08NB005	COLUMBIA RIVER AT DONALD	184
08NB006	COLUMBIA RIVER AT SURPRISE RAPIDS	201
08NB009	HOSPITAL CREEK NORTH FORK NEAR GOLDEN	391
08NB010	HOSPITAL CREEK ABOVE HOSPITAL CREEK NORTH	390
08NB011	COLUMBIA RIVER AT BIG BEND HIGHWAY CROSSI	181
08NB012	BLAEBERRY RIVER ABOVE WILLOWBANK CREEK	69
08NB013	GOLD RIVER ABOVE BACHELOR CREEK	334
08NB014	GOLD RIVER ABOVE PALMER CREEK	335
08NB015	BLAEBERRY RIVER BELOW ENSIGN CREEK	69
08NB016	SPLIT CREEK AT THE MOUTH	818
08NB018	CONNAUGHT CREEK ABOVE DIVERSION	205
08NC001	WOOD RIVER NEAR DONALD	955
08NC002	CANOE RIVER NEAR DONALD	127
08NC003	CANOE RIVER NEAR VALEMOUNT	127
08NC004	CANOE RIVER BELOW KIMMEL CREEK	126
08ND001	AKOLKOLEX RIVER NEAR REVELSTOKE	6
08ND002	COLUMBIA RIVER AT REVELSTOKE	200
08ND003	ILLECILLEWAET RIVER NEAR REVELSTOKE	400
08ND004	JORDAN RIVER NEAR REVELSTOKE	418
08ND005	ILLECILLEWAET RIVER NEAR GLACIER	400
08ND006	COLUMBIA RIVER AT TWELVE MILE FERRY	202
08ND007	COLUMBIA RIVER ABOVE NAGLE CREEK	189
08ND009	DOWNIE CREEK NEAR REVELSTOKE	243
08ND011	COLUMBIA RIVER ABOVE STEAMBOAT RAPIDS	190
08ND012	GOLDSTREAM RIVER BELOW OLD CAMP CREEK	337
08ND013	ILLECILLEWAET RIVER AT GREELEY	399
08ND014	JORDAN RIVER ABOVE KIRKUP CREEK	417
08ND015	MICA CREEK NEAR REVELSTOKE	551
08ND016	WEST WOOLSEY CREEK AT SOURCE	936
08ND018	STITT CREEK AT THE MOUTH	839
08ND019	KIRBYVILLE CREEK NEAR THE MOUTH	446
08ND021	GREELEY CREEK ABOVE DIVERSION	344
08NE001	INCOMAPPLEUX RIVER NEAR BEATON	401
08NE002	COLUMBIA RIVER AT CASTLEGAR	183
08NE003	COLUMBIA RIVER AT TRAIL	201
08NE005	CARIBOU CREEK NEAR BURTON CITY	136
08NE006	KUSKANAX CREEK NEAR NAKUSP	477
08NE007	NAKUSP CREEK NEAR NAKUSP	587
08NE008	BEATON CREEK NEAR BEATON	48
08NE009	INONOAKLIN CREEK NEAR EDGEWOOD	407
08NE010	PEND OREILLE RIVER AT INTERNATIONAL BOUND	659
08NE011	WENSLEY CREEK NEAR BROUSE	931
08NE012	INCOMAPPLEUX RIVER NEAR CAMBORNE	402
08NE016	FRUITVALE CREEK NEAR FRUITVALE	320
08NE017	SHEEP CREEK NEAR SALMO	760
08NE019	HADDEN CREEK NEAR ARROW PARK	354
08NE020	SWEETING CREEK NEAR ARROW PARK	854
08NE021	BROUSE CREEK ABOVE DIVERSIONS	99
08NE022	BROUSE CREEK NEAR NAKUSP (LOWER STATION)	100
08NE023	MAUCHLINE CREEK NEAR ARROW PARK	533
08NE024	MCQUARRIE CREEK NEAR TRAIL	545
08NE025	BATH CREEK NEAR FRUITVALE	45
08NE026	BROUSE CREEK (WEST FORK) NEAR NAKUSP	99
08NE027	FERGUSON CREEK NEAR EDGEWOOD	282
08NE028	RENATA CREEK NEAR RENATA	712
08NE030	MCLEAN CREEK NEAR EDGEWOOD	542
08NE031	BLOOMER CREEK NEAR CASTLEGAR	71
08NE032	MERRY CREEK NEAR CASTLEGAR	548
08NE033	TOPPING (STONY) CREEK NEAR TRAIL	880
08NE034	REINECKER CREEK NEAR BURTON	712
08NE035	STRAUSS CREEK NEAR NAKUSP	842
08NE036	YMIR CREEK NEAR YMIR	954
08NE037	ACTIVE CREEK NEAR YMIR	1
08NE039	BIG SHEEP CREEK NEAR ROSSLAND	63
08NE042	BEAVER CREEK AT FRUITVALE	50
08NE043	BLUEBERRY CREEK AT BLUEBERRY CREEK	72
08NE044	SALMO RIVER NEAR WANETA	727
08NE047	GILLIAM CREEK NEAR ERIE	328
08NE048	HALFWAY CREEK NEAR SALMO	355
08NE049	COLUMBIA RIVER AT BIRCHBANK	182
08NE050	PIN CREEK NEAR FAUQUIER	663
08NE051	HEART CREEK NEAR FAUQUIER	368
08NE052	FAUQUIER CREEK NEAR FAUQUIER	280
08NE053	NUGGET CREEK NEAR SHEEP CREEK	627
08NE054	BILLINGS CREEK NEAR SHEEP CREEK	64
08NE055	CASINO CREEK NEAR TRAIL	140
08NE056	KELLY CREEK NEAR FRUITVALE (UPPER STATION	428
08NE057	KELLY CREEK NEAR FRUITVALE (LOWER STATION	427
08NE058	COLUMBIA RIVER AT INTERNATIONAL BOUNDARY	186
08NE060	BANGOR BROOK NEAR ROSSLAND	37
08NE061	ANDREAS SPRING NEAR TRAIL	16
08NE062	BALFOUR CREEK NEAR ROBSON	36
08NE063	WHATSHAN RIVER AT NEEDLES	937
08NE064	BARCLAY CREEK NEAR FRUITVALE	37
08NE065	CREGGAN CREEK NEAR HELWAY	218
08NE066	ELDORADO CREEK NEAR HELWAY	260
08NE067	WALKER CREEK NEAR ROBSON	924
08NE069	ALLISON BROOK NEAR BRILLIANT	8
08NE070	LANG CREEK NEAR BRILLIANT	485
08NE071	KELLY CREEK NEAR FRUITVALE	427
08NE072	NORNS CREEK NEAR CASTLEGAR	620
08NE073	BLUEBERRY CREEK NEAR BLUEBERRY CREEK	72
08NE074	SALMO RIVER NEAR SALMO	728
08NE075	MERRY CREEK NEAR KINNAIRD	548
08NE077	BARNES CREEK NEAR NEEDLES	40
08NE078	WHATSHAN RIVER NEAR NEEDLES	937
08NE080	HANNA CREEK NEAR TRAIL	357
08NE082	CAYUSE CREEK NEAR DEER PARK	142
08NE083	LITTLE CAYUSE CREEK NEAR DEER PARK	503

STATION NO.	NAME	PAGE
08NE085	SYRINGA CREEK NEAR SYRINGA CREEK	857
08NE086	GIBSON CREEK NEAR BRILLIANT	324
08NE087	DEER CREEK AT DEER PARK	237
08NE088	CHINA CREEK NEAR CHINA CREEK	168
08NE089	PETERSON BROOK NEAR BLUEBERRY CREEK	678
08NE090	BEAR CREEK NEAR TRAIL	46
08NE091	IRON CREEK NEAR BRILLIANT	408
08NE092	OOTISCHENIA CREEK NEAR BRILLIANT	640
08NE094	CAI CREEK NEAR BRILLIANT	118
08NE095	CHAMPION CREEK NEAR CHINA CREEK	143
08NE096	BEAR CREEK ABOVE FALLS NEAR TRAIL	46
08NE097	PARKS CREEK AT PARKS	652
08NE098	MICHAEL CREEK NEAR CASTLEGAR	551
08NE100	BARRIE CREEK NEAR CASTLEGAR	41
08NE101	HALFWAY CREEK (WEST FORK OF WENSLEY CREEK) N	355
08NE106	BEAVER CREEK AT THE MOUTH	50
08NE108	EDGREN CREEK AT THE MOUTH	258
08NE109	STUSSI CREEK AT THE MOUTH	845
08NE110	INONOAKLIN CREEK ABOVE VALLEY CREEK	406
08NE111	LITTLE SHEEP CREEK NEAR ROSSLAND	508
08NE112	RECORD CREEK NEAR ROSSLAND	710
08NE113	KELLY CREEK AT 850 m CONTOUR	427
08NE114	HIDDEN CREEK NEAR THE MOUTH	374
08NE115	APEX CREEK NEAR THE MOUTH	17
08NE116	CLEARWATER CREEK BELOW OUA CREEK	177
08NE117	KUSKANAX CREEK AT 1040 m CONTOUR	477
08NE118	TRAIL CREEK AT FRENCH STREET,TRAIL	881
08NE120	MILL CREEK AT MILL ROAD BRIDGE	375
08NE121	MILL CREEK NEAR 820 m CONTOUR	375
08NE122	MACKENZIE CREEK NEAR 520 m CONTOUR	520
08NE123	CRANBERRY CREEK ABOVE B.C. HYDRO INTAKE	217
08NE124	MILL CREEK ABOVE SPAWNING CHANNEL	374
08NE125	MACKENZIE CREEK ABOVE FISH AND WILDLIFE DIVE	520
08NE126	ARROW RESERVOIR OUTFLOW	20
08NF001	KOOTENAY RIVER AT KOOTENAY CROSSING	469
08NF002	KOOTENAY RIVER AT CANAL FLATS	466
08NF003	WHITE RIVER NEAR CANAL FLATS	940
08NF004	VERMILION RIVER NEAR RADIUM HOT SPRINGS	912
08NF005	ALBERT RIVER AT 1310 m CONTOUR	7
08NF006	PALLISER RIVER IN LOT SL49	649
08NG001	FINDLAY CREEK NEAR CANAL FLATS	286
08NG002	BULL RIVER NEAR WARDNER	110
08NG003	MATHER CREEK NEAR THE MOUTH	532
08NG004	GOLD CREEK NEAR NEWGATE	334
08NG005	KOOTENAY RIVER AT WARDNER	473
08NG006	LINKLATER CREEK NEAR NEWGATE	502
08NG007	MARK CREEK NEAR MARYSVILLE	530
08NG008	PHILLIPPS CREEK AT ROOSVILLE	680
08NG009	CAITHNESS (ROCK) CREEK NEAR GALLOWAY	118
08NG010	SAND CREEK NEAR GALLOWAY	741
08NG011	LITTLE SAND CREEK NEAR JAFFRAY	507
08NG012	ST. MARY RIVER AT WYCLIFFE	625
08NG013	MUD CREEK NEAR ELKO	574
08NG014	JOSEPH CREEK NEAR CRANBROOK	420
08NG015	JOSEPH CREEK AT CRANBROOK	419
08NG016	LUSSIER CREEK NEAR WASA	515
08NG017	GOLD CREEK NEAR CRANBROOK	333
08NG021	TAMARACK CREEK NEAR SKOOKUMCHUCK	861
08NG022	FINDLAY CREEK AT THE MOUTH	285
08NG023	PERRY CREEK NEAR WYCLIFFE	678
08NG024	JIM SMITH CREEK NEAR CRANBROOK	414
08NG026	TA TA CREEK AT TA TA CREEK	857
08NG027	LAKIT CREEK AT THE UPPER FORKS	480
08NG028	EIMER CREEK NEAR KIMBERLEY	259
08NG029	FLAG CREEK NEAR FLAGSTONE	290
08NG030	MAUSE CREEK NEAR FORT STEELE	534
08NG031	CASSIMAYOOK CREEK NEAR BAKER	140
08NG032	WOLF CREEK NEAR TA TA CREEK	953
08NG033	MARK CREEK NEAR KIMBERLEY	529
08NG034	HAHA CREEK NEAR WARDNER	354
08NG035	RED CANYON CREEK NEAR FLAGSTONE	710
08NG036	MATHER CREEK ABOVE WAIT CREEK	531
08NG037	ARNOLD CREEK NEAR BAKER	19
08NG038	ANGUS CREEK NEAR CRANBROOK	16
08NG039	KOOTENAI RIVER NEAR REXFORD	463
08NG040	MATHER CREEK BELOW LOST DOG CANYON	532
08NG042	KOOTENAY RIVER AT NEWGATE	471
08NG043	GOLD CREEK DIVERSION NEAR CRANBROOK	333
08NG044	LUSSIER RIVER NEAR CANAL FLATS	516
08NG045	ARCHIBALD BROOK NEAR KIMBERLEY	18
08NG046	ST. MARY RIVER NEAR MARYSVILLE	627
08NG047	PHILLIPPS CREEK NEAR ROOSVILLE (LOWER STATION	681
08NG048	PHILLIPPS CREEK NEAR ROOSVILLE (UPPER STATION	682
08NG049	LEWIS CREEK NEAR TA TA CREEK	493
08NG051	SKOOKUMCHUCK CREEK NEAR SKOOKUMCHUCK	791
08NG052	WILD HORSE RIVER NEAR FORT STEELE	944
08NG053	KOOTENAY RIVER NEAR SKOOKUMCHUCK	476
08NG056	HOULE CREEK NEAR KIMBERLEY	382
08NG057	KIMBERLEY CREEK NEAR KIMBERLEY	445
08NG058	NORBURY CREEK NEAR WARDNER	618
08NG059	LAKIT CREEK NEAR FORT STEELE	481
08NG060	SAND CREEK NEAR GALLOWAY ABOVE DIVERSION	742
08NG061	CHIPKA CREEK NEAR WARDNER	168
08NG062	LITTLE BULL CREEK NEAR BULL RIVER	503
08NG063	NORBURY CREEK AT OUTLET OF NORBURY LAKES	619
08NG064	SUPPLY CREEK NEAR BULL RIVER	852
08NG065	KOOTENAY RIVER AT FORT STEELE	467
08NG066	JOSEPH CREEK IN LOT SL-1A	420
08NG068	GOLD CREEK ABOVE DIVERSION	332
08NG070	JOSEPH CREEK IN LOT 5450	419
08NG071	WAIT CREEK ABOVE BARTHOLOMEW LAKE	923
08NG072	WAIT CREEK IN LOT 7660	923
08NG073	MARK CREEK IN LOT 12434	528
08NG074	JOSEPH CREEK ABOVE LAGOON OUTFALL	418
08NG076	MATHER CREEK BELOW HOULE CREEK	531
08NG077	ST. MARY RIVER BELOW MORRIS CREEK	626
08NG078	CAVEN CREEK BELOW BLOOM CREEK	140
08NG080	GOLD CREEK DIVERSION CHANNEL NEAR THE MOUTH	332
08NG082	MILLER CREEK AT HIGHWAY NO. 93	553
08NG083	MILLER CREEK NEAR 1160 m CONTOUR	554
08NG084	LEWIS CREEK AT THE MOUTH	493
08NH001	DUNCAN RIVER NEAR HOWSER	250
08NH002	FRY CREEK NEAR LARDO	320
08NH003	GLACIER CREEK NEAR HOWSER	326
08NH004	GOAT RIVER NEAR ERICKSON	330
08NH005	KASLO RIVER BELOW KEMP CREEK	423
08NH006	MOYIE RIVER AT EASTPORT	572
08NH007	LARDEAU RIVER AT MARBLEHEAD	488
08NH008	FLOYD CREEK NEAR ERICKSON	295

STATION NO.	NAME	PAGE
08NH009	CAMP RUN CREEK NEAR CANYON	116
08NH010	HUGGARD CREEK NEAR WYNNDEL	394
08NH011	HUSCROFT CREEK NEAR LISTER	396
08NH012	WYNNDEL CREEK NEAR CRESTON	956
08NH013	RYKERT CREEK NEAR LISTER	724
08NH014	SULLIVAN CREEK NEAR ERICKSON	847
08NH015	WILDS CREEK (SOUTH FORK) NEAR WYNNDEL	945
08NH016	DUCK CREEK NEAR WYNNDEL	246
08NH019	DAVIS CREEK NEAR CRAWFORD BAY	227
08NH020	MCGREGOR CREEK NEAR CRAWFORD BAY	539
08NH021	KOOTENAI RIVER AT PORTHILL	460
08NH031	KOOTENAI RIVER NEAR COPELAND	462
08NH032	BOUNDARY CREEK NEAR PORTHILL	85
08NH034	MOYIE RIVER AT MOYIE	574
08NH036	AYLMER CREEK (SOUTH FORK) NEAR QUEENS BA	29
08NH037	AYLMER CREEK (NORTH FORK) NEAR QUEENS BA	28
08NH038	AYLMER CREEK NEAR QUEENS BAY	29
08NH039	UNNAMED CREEK NEAR CRESTON	904
08NH040	ROSS CREEK NEAR QUEENS BAY	720
08NH041	MUNN CREEK NEAR AINSWORTH	575
08NH042	HOLIDAY CREEK NEAR BOSWELL	381
08NH043	ELSIE HOLMES CREEK NEAR WYNNDEL	272
08NH044	WILDS CREEK (NORTH FORK) NEAR WYNNDEL	945
08NH045	SIRDAR CREEK AT SIRDAR	782
08NH046	WING CREEK NEAR KASLO	950
08NH047	ATHOL CREEK NEAR KASLO	25
08NH048	GOLDSMITH CREEK NEAR KASLO	337
08NH049	BIRKBECK CREEK NEAR GRAY CREEK	66
08NH050	TUNNEL CREEK NEAR WYNNDEL	896
08NH051	ARGENTA CREEK NEAR ARGENTA	18
08NH052	BURDEN CREEK NEAR CRAWFORD BAY	112
08NH054	KEMP CREEK NEAR KASLO	432
08NH056	BOND CREEK NEAR CANYON	78
08NH057	BJERKNESS CREEK AT MIRROR LAKE	67
08NH058	ELMIRA CREEK NEAR YAHK	271
08NH059	ELMER CREEK NEAR KINGSGATE	271
08NH061	CROASDAILE CREEK NEAR GRAY CREEK	221
08NH063	MARTELL CREEK NEAR SANCA	530
08NH065	GRAY CREEK NEAR GRAY CREEK	343
08NH066	LARDEAU RIVER AT GERRARD	487
08NH068	CORN CREEK NEAR CRESTON	210
08NH069	CHINA CUP CREEK NEAR CRESTON	169
08NH070	HENDRYX CREEK NEAR RIONDEL	373
08NH071	MCGREGOR CREEK NEAR BOSWELL	539
08NH072	ENGLISH CREEK NEAR CRESTON	273
08NH073	PETERMAN CREEK NEAR CRESTON	678
08NH074	FLOYD CREEK NEAR CANYON (UPPER STATION)	294
08NH075	FLOYD CREEK NEAR CANYON (LOWER STATION)	294
08NH076	CHARLES CREEK NEAR BOSWELL	145
08NH077	SIMMONDS CREEK NEAR CRESTON	779
08NH078	EZEKIEL CREEK NEAR CRESTON	278
08NH079	BRIDALVEIL CREEK AT QUEENS BAY	93
08NH080	QUEENS CREEK AT QUEENS BAY	700
08NH081	ORDE CREEK NEAR CANYON	641
08NH082	LISTER CREEK NEAR CANYON	502
08NH083	DUNSFORD CREEK NEAR CANYON	251
08NH084	ARROW CREEK NEAR ERICKSON	19
08NH085	THOMPSON CREEK NEAR KITCHENER	870
08NH086	ZIMMER CREEK NEAR CRAWFORD BAY	960
08NH087	PREACHER CREEK NEAR CRAWFORD BAY	681
08NH099	LA FRANCE CREEK NEAR BOSWELL	479
08NH100	SUMMIT CREEK NEAR CRESTON	852
08NH101	COFFEE CREEK NEAR AINSWORTH	183
08NH102	AKOKLI CREEK NEAR BOSWELL	6
08NH103	MACK CREEK NEAR BOSWELL	518
08NH104	CRAWFORD CREEK NEAR CRAWFORD BAY	218
08NH105	OKELL CREEK NEAR ERICKSON	637
08NH106	KITCHENER CREEK NEAR KITCHENER	448
08NH109	INDIAN CREEK NEAR RIONDEL	402
08NH112	CAMP RUN CREEK DIVERSION NEAR CANYON	118
08NH113	DISTRICT BROOK NEAR CANYON	241
08NH114	FLOYD CREEK ABOVE ORDE CREEK	294
08NH115	SULLIVAN CREEK NEAR CANYON	846
08NH116	GLASER CREEK NEAR CRESTON	328
08NH117	TWIN BAYS CREEK NEAR KUSKONOOK	900
08NH118	DUNCAN RIVER BELOW LARDEAU RIVER	249
08NH119	DUNCAN RIVER BELOW B.B. CREEK	248
08NH120	MOYIE RIVER ABOVE NEGRO CREEK	571
08NH121	MCDONALD CREEK NEAR KASLO	536
08NH122	PEAVINE CREEK NEAR CRANBROOK	667
08NH124	MEADOW CREEK ABOVE JOHN CREEK	545
08NH125	JOHN CREEK NEAR MEADOW CREEK	416
08NH126	DUNCAN RIVER BELOW DUNCAN DAM	248
08NH128	MEADOW CREEK DIVERSION BELOW JOHN CREEK	546
08NH130	FRY CREEK BELOW CARNEY CREEK	320
08NH131	CARNEY CREEK BELOW PAMBRUN CREEK	138
08NH132	KEEN CREEK BELOW KYAWATS CREEK	426
08NH133	RUSSEL CREEK NEAR THE MOUTH	723
08NH137	TEETZEL CREEK ABOVE DIVERSIONS	865
08NJ001	KOOTENAY RIVER AT GLADE	468
08NJ002	KOOTENAY RIVER NEAR TAGHUM	478
08NJ003	CARPENTER CREEK NEAR NEW DENVER	138
08NJ004	CARPENTER CREEK (SOUTH FORK) AT SANDON	138
08NJ005	SILVERTON CREEK NEAR SILVERTON (LOWER ST	773
08NJ006	SILVERTON CREEK NEAR SILVERTON (UPPER ST	773
08NJ007	KOOTENAY RIVER NEAR BONNINGTON FALLS	474
08NJ008	KOOTENAY RIVER NEAR BONNINGTON POOL	475
08NJ009	KOOTENAY RIVER AT NELSON	470
08NJ010	SAWMILL CREEK NEAR NEW DENVER	746
08NJ011	WILSON CREEK NEAR ROSEBERY	948
08NJ012	VEVEY CREEK NEAR SILVERTON	919
08NJ013	SLOCAN RIVER NEAR CRESCENT VALLEY	786
08NJ014	SLOCAN RIVER AT SLOCAN CITY	783
08NJ015	RICHARDS CREEK NEAR APPLEDALE	713
08NJ016	JEROME CREEK NEAR APPLEDALE	414
08NJ018	FALLS CREEK NEAR SOUTH SLOCAN	279
08NJ019	LAIRD CREEK NEAR BALFOUR	480
08NJ020	HARROWS CREEK NEAR PROCTER	361
08NJ021	PROCTER CREEK AT PROCTER	683
08NJ022	GREENWOOD CREEK NEAR PROCTER	347
08NJ023	SANDY CREEK NEAR NELSON	743
08NJ024	SLATER CREEK NEAR HARROP	781
08NJ026	DUHAMEL CREEK ABOVE DIVERSIONS	247
08NJ027	HARROP CREEK NEAR HARROP	358
08NJ028	FLORENCE CREEK NEAR NEW DENVER	293
08NJ029	SIMPSON CREEK NEAR NEW DENVER	780
08NJ030	EZRA CREEK NEAR THRUMS	278
08NJ031	MAIN CREEK NEAR THRUMS	524
08NJ032	BIRD CREEK NEAR BLEWETT	66

STATION NO.	NAME	PAGE
08NJ033	CRYSTAL CREEK NEAR NELSON	221
08NJ034	SHANNON CREEK NEAR NELSON	757
08NJ035	WATERWHEEL CREEK NEAR NELSON	929
08NJ036	ISAAC CREEK NEAR NELSON	406
08NJ037	VAN WAGNER CREEK NEAR NELSON	906
08NJ039	TARRYS CREEK NEAR TARRYS	863
08NJ041	COUTTS CREEK AT THRUMS	214
08NJ042	AIRY CREEK NEAR PASSMORE	5
08NJ044	CARSON CREEK NEAR PROCTER	139
08NJ046	JARVIS CREEK NEAR NELSON	413
08NJ047	VAN WAGNER CREEK ABOVE EAST FORK	908
08NJ048	VAN WAGNER CREEK BELOW EAST FORK	908
08NJ049	MORLEY CREEK NEAR NELSON	588
08NJ050	RINGROSE CREEK ABOVE DIVERSIONS	715
08NJ051	ANGUS CREEK NEAR WINLAW	16
08NJ053	BROGAN CREEK NEAR PERRY SIDING	89
08NJ054	GRANT CREEK NEAR SLOCAN	342
08NJ055	HIRD CREEK NEAR WINLAW	378
08NJ056	PEDRO CREEK NEAR WINLAW	667
08NJ057	PERRY CREEK NEAR PERRY SIDING	677
08NJ058	VINCENT CREEK NEAR SLOCAN	920
08NJ059	STAR CREEK NEAR TAGHUM	832
08NJ060	FOSTER CREEK NEAR NELSON	301
08NJ061	REDFISH CREEK NEAR HARROP	711
08NJ062	HUME CREEK NEAR NELSON	394
08NJ064	RINGROSE CREEK BELOW CLAY'S DIVERSION	715
08NJ065	EAGLE CREEK (SOUTH FORK) NEAR BLEWETT	254
08NJ066	SMOKY CREEK NEAR SOUTH SLOCAN	800
08NJ067	PEARSON CREEK NEAR PROCTER	665
08NJ068	FORTY-NINE CREEK NEAR BLEWETT	301
08NJ069	CHRISTIAN CREEK NEAR PERRY SIDING	170
08NJ070	WARD CREEK NEAR NELSON	927
08NJ071	TANK CREEK NEAR NELSON	861
08NJ072	ELLIOTT CREEK NEAR APPLEDALE	268
08NJ085	SCHIAVON CREEK NEAR THRUMS	745
08NJ087	LIMEKILN CREEK NEAR SLOCAN	499
08NJ098	SELOUS CREEK NEAR NELSON	748
08NJ099	GROHMAN CREEK NEAR NELSON	347
08NJ101	NELLY CREEK NEAR PERRY SIDING	605
08NJ102	THRUMS CREEK NEAR THRUMS	876
08NJ103	DEMSAL CREEK NEAR THRUMS	236
08NJ104	SMALLWOOD CREEK NEAR TAGHUM	798
08NJ106	AIREY CREEK NEAR NELSON	4
08NJ107	SUTHERLAND CREEK NEAR NELSON	854
08NJ108	TROZZO CREEK NEAR APPLEDALE	890
08NJ109	SPROULE CREEK AT TAGHUM	822
08NJ110	GARRITY CREEK NEAR TAGHUM	322
08NJ111	ROVER CREEK NEAR SOUTH SLOCAN	721
08NJ112	GOOSE CREEK NEAR CRESCENT VALLEY	339
08NJ115	SITKUM CREEK NEAR NELSON	783
08NJ116	CADDEN CREEK NEAR ROSEBERY	115
08NJ117	ARTHUR CREEK NEAR ROSEBERY	21
08NJ118	AHRENS BROOK NEAR NELSON	4
08NJ119	BOURKE CREEK NEAR NELSON	86
08NJ120	WINLAW CREEK NEAR WINLAW	951
08NJ121	O'SHEA CREEK NEAR SLOCAN CITY	638
08NJ122	DIETRICH CREEK AT NELSON	240
08NJ123	GIVEOUT CREEK NEAR NELSON	325
08NJ124	ROSLING SPRING NEAR NELSON	720
08NJ125	RUCKS CREEK AT SUNSHINE BAY	722
08NJ126	MCFAYDEN CREEK NEAR VALLICAN	537
08NJ128	FELL CREEK NEAR NELSON	281
08NJ130	ANDERSON CREEK NEAR NELSON	15
08NJ131	SANDY CREEK NEAR BLEWETT	743
08NJ132	GWILLIM CREEK NEAR SLOCAN CITY	353
08NJ133	CARPENTER CREEK NEAR SANDON	138
08NJ134	CODY CREEK NEAR SANDON	183
08NJ135	GOOSE CREEK ABOVE GANDER CREEK	338
08NJ138	FOUR MILE CREEK NEAR WILLOW POINT	303
08NJ139	FLYNN CREEK NEAR WINLAW	285
08NJ140	SCHIAVON CREEK BELOW HIGHEST DIVERSION	745
08NJ141	KITTO CREEK NEAR BALFOUR	452
08NJ143	EAGLE CREEK (WEST FORK) NEAR BLEWETT	255
08NJ145	RICE CREEK NEAR APPLEDALE	713
08NJ146	AIRPORT CREEK NEAR BRILLIANT	5
08NJ147	THOMPSON CREEK NEAR WILLOW POINT	871
08NJ149	GLADE CREEK NEAR SHOREACRES	326
08NJ150	LITTLE MCPHEE CREEK NEAR BRILLIANT	504
08NJ151	MCPHEE CREEK NEAR BRILLIANT	545
08NJ152	WOLVERTON CREEK NEAR SLOCAN PARK	954
08NJ153	SUTHERLAND CREEK ABOVE POWER LINE	853
08NJ154	SHER CREEK NEAR CRESCENT VALLEY	760
08NJ155	VAN WAGNER CREEK (EAST FORK) NEAR NELS	907
08NJ156	VAN WAGNER CREEK (WEST FORK) NEAR NELS	907
08NJ157	MCDERMID CREEK NEAR KRESTOVA	535
08NJ158	KOOTENAY LAKE OUTFLOW NEAR CORRA LINN	464
08NJ159	GOOSE CREEK AT PROVINCIAL FOREST ROAD	339
08NJ160	LEMON CREEK ABOVE SOUTH LEMON CREEK	492
08NJ161	BAGLEY CREEK NEAR BALFOUR	35
08NJ162	SMOKY CREEK ABOVE DIVERSIONS	800
08NJ163	FALLS CREEK ABOVE B.I.D. DIVERSION	278
08NJ164	CADDEN CREEK ABOVE DIVERSIONS	115
08NJ165	ELLIOTT CREEK ABOVE DIVERSIONS	268
08NJ166	DUMONT CREEK NEAR WINLAW	247
08NJ167	SANDY CREEK ABOVE RELKOFF DIVERSION	742
08NJ168	FIVE MILE CREEK ABOVE CITY INTAKE	289
08NJ169	AIRY CREEK ABOVE DIVERSIONS	5
08NJ170	BIRD CREEK ABOVE DIVERSION	66
08NJ171	KITTO CREEK ABOVE DIVERSIONS	451
08NK001	ELK RIVER AT ELKO	262
08NK002	ELK RIVER AT FERNIE	263
08NK004	LIZARD CREEK NEAR FERNIE	509
08NK005	ELK RIVER AT PHILLIPS BRIDGE	264
08NK006	RAYMOND CREEK NEAR ELKO	709
08NK007	QUAIL CREEK NEAR HOSMER	697
08NK008	MAGUIRE CREEK NEAR GRASMERE	521
08NK011	HARTLEY CREEK NEAR FERNIE	359
08NK012	ELK RIVER AT STANLEY PARK	266
08NK013	AQUEDUCT CREEK NEAR NATAL	17
08NK014	QUALTIERI CREEK NEAR NATAL	698
08NK016	ELK RIVER NEAR NATAL	267
08NK017	WHITING CREEK NEAR NATAL	943
08NK018	FORDING RIVER AT THE MOUTH	286
08NK019	GRAVE CREEK AT THE MOUTH	343
08NK020	MICHEL CREEK BELOW NATAL	552
08NK021	FORDING RIVER BELOW CLODE CREEK	287
08NK022	LINE CREEK AT THE MOUTH	501
08NK025	FORDING RIVER ABOVE CLODE CREEK	285
08NK026	HOSMER CREEK ABOVE DIVERSIONS	389
08NK027	ELK RIVER BELOW WEARY CREEK	265
08NK028	MICHEL CREEK ABOVE CORBIN CREEK	551
08NK029	KILMARNOCK CREEK NEAR THE MOUTH	448
08NL004	ASHNOLA RIVER NEAR KEREMEOS	23
08NL005	TULAMEEN RIVER NEAR PRINCETON	896
08NL006	SIMILKAMEEN RIVER NEAR KEREMEOS	777
08NL007	SIMILKAMEEN RIVER AT PRINCETON	775
08NL008	TULAMEEN RIVER AT COALMONT	893
08NL009	HEDLEY CREEK NEAR HEDLEY	369
08NL010	KEREMEOS CREEK NEAR OLALLA	435
08NL011	OLALLA CREEK AT OLALLA	637
08NL012	ALLISON CREEK NEAR PRINCETON	10
08NL013	SUMMERS CREEK AT THE MOUTH	850
08NL014	KEREMEOS CREEK ABOVE MARSEL CREEK	433
08NL015	ASP CREEK NEAR PRINCETON	24
08NL016	HAYES CREEK NEAR JURA	368
08NL019	SUMMERS CREEK NEAR PRINCETON	851
08NL020	HAYES CREEK NEAR PRINCETON	368
08NL021	GRANITE CREEK AT THE MOUTH	342
08NL022	SIMILKAMEEN RIVER NEAR NIGHTHAWK	778
08NL023	OTTER CREEK AT TULAMEEN	644
08NL024	TULAMEEN RIVER AT PRINCETON	894
08NL025	WOLFE CREEK NEAR PRINCETON	954
08NL033	LITTLE MUDDY CREEK NEAR MANNING PARK	505
08NL034	SMITH CREEK NEAR HEDLEY	799
08NL035	SOUKUP CREEK NEAR HEDLEY	807
08NL036	WHIPSAW CREEK BELOW LAMONT CREEK	938
08NL037	TREHEARNE CREEK NEAR PRINCETON	883
08NL038	SIMILKAMEEN RIVER NEAR HEDLEY	777
08NL039	SIWASH CREEK NEAR PRINCETON	783
08NL040	RICHTER CREEK NEAR OSOYOOS	714
08NL041	WOLFE CREEK AT OUTLET OF ISSITZ LAKE	953
08NL043	SUMMERS CREEK AT OUTLET OF MISSEZULA LAKE	850
08NL044	KEREMEOS CREEK AT MIDDLE BENCH ROAD	434
08NL045	KEREMEOS CREEK BELOW WILLIS INTAKE	434
08NL050	HEDLEY CREEK NEAR THE MOUTH	370
08NL051	HAYES CREEK BELOW SHINISH CREEK	367
08NL053	SUMMERS CREEK NEAR THE MOUTH	851
08NL054	SUMMERS CREEK BELOW DILLARD CREEK	851
08NL056	ALLISON CREEK ABOVE SUMMERS CREEK	9
08NL057	ALLISON CREEK AT OUTLET OF ALLISON LAKE	9
08NL060	OTTER CREEK BELOW SPEARING CREEK	645
08NL062	SIMILKAMEEN RIVER BELOW CHUWANTEN CREEK	776
08NL067	TULAMEEN RIVER NEAR TULAMEEN	896
08NL068	NICKEL PLATE RESERVOIR OUTFLOW	606
08NL069	PASAYTEN RIVER ABOVE CALCITE CREEK	654
08NL070	SIMILKAMEEN RIVER ABOVE GOODFELLOW CREEK	774
08NL071	TULAMEEN RIVER BELOW YUICH CREEK	895
08NL072	ASHNOLA RIVER ABOVE YOUNG CREEK	22
08NL074	LITTLE MUDDY CREEK BELOW LIGHTNING LAKE	505
08NL075	SIMILKAMEEN RIVER ABOVE MEMALOOSE CREEK	774
08NM001	OKANAGAN RIVER NEAR FAIRVIEW	632
08NM002	OKANAGAN RIVER AT OKANAGAN FALLS	629
08NM003	LAMBLY CREEK NEAR THE MOUTH	464
08NM004	KLO CREEK NEAR KELOWNA	454
08NM005	MCLEAN CREEK NEAR OKANAGAN FALLS	542
08NM006	SHUTTLEWORTH CREEK NEAR OKANAGAN FALLS	769
08NM007	CHUTE CREEK NEAR NARAMATA	173
08NM008	VERNON CREEK ABOVE DIVERSIONS	912
08NM009	VERNON CREEK AT INLET TO WOOD LAKE	913
08NM010	HYDRAULIC CREEK NEAR THE MOUTH	397
08NM011	HYDRAULIC CREEK AT OUTLET OF MCCULLOCH RE:	396
08NM012	INKANEEP CREEK NEAR OLIVER (LOWER STATION	405
08NM013	JACK CREEK AT THE MOUTH	411
08NM014	MCDOUGALL CREEK NEAR WESTBANK	537
08NM015	VASEUX CREEK ABOVE DUTTON CREEK	909
08NM016	MISSION CREEK NEAR RUTLAND	557
08NM017	BELGO CREEK NEAR RUTLAND	53
08NM018	HILDA CREEK NEAR RUTLAND	374
08NM020	B.X. CREEK ABOVE VERNON INTAKE	30
08NM021	VERNON CREEK AT VERNON	916
08NM022	VERNON CREEK AT OUTLET OF SWALWELL LAKE	915
08NM023	DARKE CREEK NORTHWEST FORK	226
08NM024	EQUESIS CREEK NEAR VERNON	275
08NM025	DARKE CREEK AT MEADOW VALLEY	225
08NM026	KELOWNA CREEK NEAR RUTLAND (UPPER STATION	430
08NM028	OYAMA CREEK OYAMA DIVERSION	646
08NM029	PEACHLAND CREEK NEAR PEACHLAND	665
08NM030	PEACHLAND CREEK MUNICIPAL IRRIGATION DIVE	665
08NM031	PENTICTON CREEK BELOW DIVERSION	674
08NM032	PENTICTON CREEK MAIN DIVERSION	676
08NM033	POWERS CREEK ABOVE WESTBANK DIVERSION	689
08NM034	POWERS CREEK WESTBANK DIVERSION	691
08NM035	BELLEVUE CREEK NEAR OKANAGAN MISSION	57
08NM036	SCOTTY CREEK NEAR RUTLAND	747
08NM037	SHATFORD CREEK NEAR PENTICTON	758
08NM038	SHINGLE CREEK ABOVE KALEDEN DIVERSION	760
08NM039	HYDRAULIC CREEK DIVERSION NEAR KELOWNA	397
08NM040	HYDRAULIC CREEK SOUTHEAST KELOWNA DIVERSI	398
08NM041	TREPANIER CREEK NEAR PEACHLAND	885
08NM042	TROUT CREEK NEAR SUMMERLAND	888
08NM043	VERNON CREEK NEAR OKANAGAN CENTRE	917
08NM044	VERNON CREEK OKANAGAN CENTRE DIVERSION	918
08NM046	WHITEMAN CREEK NEAR VERNON	942
08NM047	NASWHITO CREEK NEAR EWING'S LANDING	594
08NM048	OYAMA CREEK ABOVE WOOD LAKE IRRIGATION IN'	645
08NM049	HORN CREEK NEAR KALEDEN	387
08NM050	OKANAGAN RIVER AT PENTICTON	631
08NM052	IRISH CREEK NEAR VERNON	408
08NM053	KELOWNA CREEK NEAR KELOWNA (LOWER STATION	429
08NM054	TROUT CREEK NEAR FAULDER	888
08NM055	TROUT CREEK SUMMERLAND DIVERSION	889
08NM056	ELLIS CREEK SOUTH MAIN DIVERSION	270
08NM057	MISSION CREEK RUTLAND DIVERSION	557
08NM058	LAMBLY CREEK NEAR KELOWNA	463
08NM059	POWERS CREEK BELOW WESTBANK DIVERSION	690
08NM060	KLO CREEK DIVERSION NEAR KELOWNA	454
08NM061	KELOWNA CREEK NEAR RUTLAND	430
08NM063	PENTICTON CREEK LOT 19 DIVERSION	675
08NM065	VERNON CREEK AT OUTLET OF KALAMALKA LAKE	914
08NM068	HOWARD CREEK NEAR PENTICTON	392
08NM069	REED CREEK NEAR PENTICTON	711
08NM070	RIDDLE CREEK NEAR WEST SUMMERLAND	714
08NM072	OKANOGAN RIVER NEAR TONASKET	636
08NM074	ELLIS CREEK NEAR PENTICTON	269
08NM075	DEEP CREEK NEAR VERNON (STATION NO. 3)	235
08NM076	PENTICTON CREEK ABOVE DIVERSION	673
08NM082	INKANEEP CREEK NEAR OLIVER (UPPER STATION:	406
08NM085	OKANAGAN RIVER NEAR OLIVER	633

STATION NO.	NAME	PAGE
08NM114	OLIVER CANAL NEAR OLIVER	637
08NM116	MISSION CREEK NEAR EAST KELOWNA	556
08NM117	KELOWNA CREEK AT RUTLAND STATION	428
08NM118	PENTICTON CREEK AT THE MOUTH	673
08NM119	DEEP CREEK AT ARMSTRONG	233
08NM120	PARK RILL NEAR OLIVER	651
08NM121	WOLFCUB CREEK NEAR OLIVER	953
08NM122	ELLIS CREEK NORTH MAIN DIVERSION	269
08NM123	B.X. CREEK BELOW SWAN LAKE CONTROL DAM	31
08NM124	COLDSTREAM CREEK NEAR LAVINGTON	186
08NM126	HAYNES CREEK NEAR OSOYOOS	369
08NM127	OKANOGAN RIVER AT OROVILLE	634
08NM129	JOE RICH CREEK NEAR RUTLAND	416
08NM130	TESTALINDEN CREEK NEAR OLIVER	867
08NM132	BULL CREEK NEAR CRUMP	108
08NM134	CAMP CREEK AT MOUTH NEAR THIRSK	117
08NM135	ELLIS CREEK AT PENTICTON	268
08NM136	LAMBLY LAKE DIVERSION TO POWERS CREEK	464
08NM137	DAVES CREEK NEAR RUTLAND	226
08NM138	TERRACE CREEK NEAR KELOWNA	866
08NM139	ESPERON CREEK NEAR KELOWNA	276
08NM140	PEACHLAND CREEK ABOVE DIVERSIONS	663
08NM141	LAMBLY CREEK BELOW TERRACE CREEK	462
08NM142	COLDSTREAM CREEK ABOVE MUNICIPAL INTAKE	185
08NM145	BULMAN CREEK AT THE MOUTH	112
08NM146	CLARK CREEK NEAR WINFIELD	176
08NM147	HORN CREEK NEAR OLALLA	387
08NM149	SHUTTLEWORTH CREEK AT THE MOUTH	768
08NM150	SHINGLE CREEK AT THE MOUTH	761
08NM151	SHORTS CREEK AT THE MOUTH	762
08NM152	BRANDTS CREEK NEAR THE MOUTH	81
08NM153	DEEP CREEK AT THE MOUTH	234
08NM154	COLDSTREAM CREEK AT THE MOUTH	185
08NM155	TREPANIER CREEK AT THE MOUTH	884
08NM156	BELLEVUE CREEK AT THE MOUTH	56
08NM157	POWERS CREEK AT THE MOUTH	689
08NM158	TROUT CREEK AT THE MOUTH	887
08NM159	PEACHLAND CREEK AT THE MOUTH	664
08NM160	VERNON CREEK NEAR THE MOUTH	917
08NM161	EQUESIS CREEK NEAR THE MOUTH	275
08NM162	VERNON CREEK AT INLET TO ELLISON LAKE	912
08NM164	TESTALINDEN CREEK IN CANYON	867
08NM165	LAMBLY CREEK ABOVE TERRACE CREEK	461
08NM166	LAMBLY CREEK BELOW BALD RANGE CREEK	462
08NM167	LAMBLY CREEK DIVERSION TO ROSE VALLEY LAKE	463
08NM168	PENTICTON CREEK ABOVE DENNIS CREEK	672
08NM170	PENTICTON CREEK BELOW HARRIS CREEK	674
08NM171	VASEUX CREEK ABOVE SOLCO CREEK	910
08NM172	PEARSON CREEK NEAR THE MOUTH	667
08NM173	GREATA CREEK NEAR THE MOUTH	344
08NM174	WHITEMAN CREEK ABOVE BOULEAU CREEK	941
08NM175	VERNON CREEK BELOW ARDA DAM	916
08NM176	EWER CREEK NEAR THE MOUTH	276
08NM177	DEEP CREEK AT YOUNG ROAD	234
08NM178	UNNAMED DITCH AT OLIVER	905
08NM179	COLDSTREAM CREEK ABOVE KALAVISTA DIVERSION	184
08NM180	WHITEMAN CREEK AT THE MOUTH	941
08NM181	WINFIELD CREEK AT INLET TO WOOD LAKE	950
08NM182	VERNON CREEK AT OUTLET OF ELLISON LAKE	913
08NM184	WESTBANK CREEK AT THE MOUTH	936
08NM189	UNNAMED DITCH ABOVE PACKING HOUSE OUTFALLS	905
08NM200	INKANEEP CREEK NEAR THE MOUTH	406
08NM201	PEACHLAND CREEK BELOW DIVERSION TO PEACHLAN	664
08NM202	PEACHLAND LAKE RESERVOIR OUTFLOW	666
08NM207	MYRA DITCH BELOW KLO CREEK	584
08NM210	POOLEY CREEK ABOVE POOLEY DITCH	687
08NM212	STIRLING CREEK DIVERSION TO MCCULLOCH RESER	838
08NM216	MCDONALD CREEK DIVERSION TO PEACHLAND CREEK	536
08NM219	PEACHLAND CREEK DIVERSION TO PEACHLAND LAKE	665
08NM225	BELGO CREEK NEAR THE MOUTH	53
08NM226	KLO CREEK AT MCCULLOCH ROAD	453
08NM228	ENEAS CREEK NEAR SUMMERLAND	273
08NM229	LOCH KATRINE CREEK AT OUTLET OF GRAYSTOKE L	511
08NM232	BELGO CREEK BELOW HILDA CREEK	53
08NM233	MISSION CREEK ABOVE PEARSON CREEK	555
08NM235	RIBBLEWORTH CREEK NEAR OYAMA	712
08NM237	TROUT CREEK BELOW THIRSK LAKE	887
08NM238	MISSION CREEK BELOW B.M.I.D. INTAKE	555
08NM240	TWO FORTY CREEK NEAR PENTICTON	900
08NM241	TWO FORTY-ONE CREEK NEAR PENTICTON	900
08NN001	BOUNDARY CREEK AT GREENWOOD	63
08NN002	GRANBY RIVER AT GRAND FORKS	341
08NN003	WEST KETTLE RIVER AT WESTBRIDGE	932
08NN004	KETTLE RIVER AT KETTLE VALLEY	438
08NN005	KETTLE RIVER AT CARSON	436
08NN006	KETTLE RIVER AT CASCADE	437
08NN007	ROCK CREEK NEAR ROCK CREEK	718
08NN008	PASS CREEK NEAR GRAND FORKS	654
08NN009	DAN O'REA CREEK NEAR GRAND FORKS	225
08NN010	MYERS CREEK AT INTERNATIONAL BOUNDARY	583
08NN011	BOUNDARY CREEK NEAR MIDWAY	64
08NN012	KETTLE RIVER NEAR LAURIER	441
08NN013	KETTLE RIVER NEAR FERRY	439
08NN014	CHRISTINA CREEK AT OUTLET OF CHRISTINA LAKE	171
08NN015	WEST KETTLE RIVER NEAR MCCULLOCH	934
08NN016	SUTHERLAND CREEK NEAR FIFE	853
08NN018	JULY CREEK NEAR GRAND FORKS	420
08NN019	TRAPPING CREEK NEAR THE MOUTH	883
08NN020	TRAPPING CREEK AT 1220 m CONTOUR	882
08NN021	MOODY CREEK NEAR CHRISTINA	564
08NN022	WEST KETTLE RIVER BELOW CARMI CREEK	933
08NN023	BURRELL CREEK ABOVE GLOUCESTER CREEK	113
08NN026	KETTLE RIVER NEAR WESTBRIDGE	442
08NN027	BEAVERDELL CREEK NEAR BEAVERDELL	52
08NP001	FLATHEAD RIVER AT FLATHEAD	293
08NP002	COULDREY CREEK IN LOT 9380	213
08NP003	HOWELL CREEK ABOVE CABIN CREEK	393
08NP004	CABIN CREEK NEAR THE MOUTH	114
08OA002	YAKOUN RIVER NEAR PORT CLEMENTS	956
08OA003	PREMIER CREEK NEAR QUEEN CHARLOTTE	692
08OB001	DEENA RIVER NEAR QUEEN CHARLOTTE	233
08OB002	PALLANT CREEK NEAR QUEEN CHARLOTTE	646
08OB003	MATHERS CREEK NEAR SANDSPIT	533
08PA001	SKAGIT RIVER NEAR HOPE	785
08PA002	SUMALLO RIVER AT THE MOUTH	847
08PA003	SUMALLO RIVER NEAR HOPE	848
08PA004	SKAGIT RIVER AT INTERNATIONAL BOUNDARY	784
09AA006	ATLIN RIVER NEAR ATLIN	25
09AA008	PINE CREEK NEAR ATLIN	683

STATION NO.	NAME	PAGE
09AA010	LINDEMAN CREEK NEAR BENNETT	500
09AA012	TUTSHI RIVER AT OUTLET OF TUTSHI LAKE	897
09AA014	FANTAIL RIVER AT OUTLET OF FANTAIL LAKE	279
09AA015	WANN RIVER NEAR ATLIN	925
09AE003	SWIFT RIVER NEAR SWIFT RIVER	858
09AE004	GLADYS RIVER AT OUTLET OF GLADYS LAKE	328
10AC002	DEASE RIVER AT MCDAME	231
10AC003	DEASE RIVER AT OUTLET OF DEASE LAKE	232
10AC004	BLUE RIVER NEAR THE MOUTH	71
10AC005	COTTONWOOD RIVER ABOVE BASS CREEK	211
10AC006	DEASE RIVER NEAR THE MOUTH	232
10AD001	HYLAND RIVER NEAR LOWER POST	398
10BA001	TURNAGAIN RIVER ABOVE SANDPILE CREEK	897
10BB001	KECHIKA RIVER AT THE MOUTH	425
10BB002	KECHIKA RIVER ABOVE BOYA CREEK	425
10BC001	COAL RIVER AT THE MOUTH	182
10BE001	LIARD RIVER AT LOWER CROSSING	485
10BE002	RACING RIVER NEAR FORT NELSON	706
10BE004	TOAD RIVER ABOVE NONDA CREEK	878
10BE005	LIARD RIVER ABOVE BEAVER RIVER	484
10BE006	LIARD RIVER ABOVE KECHIKA RIVER	484
10BE007	TROUT RIVER AT KILOMETRE 783.7 ALASKA HIGH	889
10BE008	GEDDES CREEK AT THE MOUTH	323
10BE009	TEETER CREEK NEAR THE MOUTH	864
10BE010	TOAD RIVER NEAR THE MOUTH	878
10BE011	GRAYLING RIVER NEAR THE MOUTH	343
10BE012	RABBIT RIVER NEAR THE MOUTH	706
10BE013	SMITH RIVER ABOVE SMITH FALLS	798
10CB001	SIKANNI CHIEF RIVER NEAR FORT NELSON	770
10CC001	FORT NELSON RIVER AT FORT NELSON	299
10CC002	FORT NELSON RIVER ABOVE MUSKWA RIVER	299
10CD001	MUSKWA RIVER NEAR FORT NELSON	582
10CD002	PARKER CREEK NEAR THE MOUTH	651
10CD003	RASPBERRY CREEK NEAR THE MOUTH	708
10CD004	BOUGIE CREEK AT KILOMETRE 368 ALASKA HIGHW	62
10CD005	ADSETT CREEK AT KILOMETRE 386.0 ALASKA HIG	3

TABLE 8.2.3
Sample Historical Streamflow Summary

BC

BARNES CREEK NEAR NEEDLES - STATION NO 08NE077

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1951	1.18	0.818	0.729	4.13	20.1	14.1	3.96	1.06	1.01	2.26	1.33	1.12	4.33	1951
1952	0.915	0.804	0.809	5.79	21.3	13.4	3.92	1.26	0.891	0.650	0.540	0.509	4.24	1952
1953	0.501	0.453	0.456	1.32	13.3	16.0	6.54	2.38	1.75	1.71	2.18	1.28	4.00	1953
1954	0.989	0.670	0.883	1.66	17.3	17.7	9.16	2.79	3.85	2.09	2.80	2.02	5.19	1954
1955	1.24	1.02	0.881	1.35	7.88	24.0	8.06	1.85	1.10	1.47	1.35	0.986	4.25	1955
1956	0.827	0.577	0.573	4.83	22.7	14.7	3.65	1.27	1.05	1.36	1.13	0.855	4.49	1956
1957	0.590	0.587	0.581	1.95	23.8	7.84	2.67	2.15	1.05	1.05	1.02	0.786	3.72	1957
1958	0.628	0.594	0.972	2.52	20.5	6.53	1.93	0.877	0.974	1.56	1.15	0.949	3.30	1958
1959	0.827	0.717	0.703	2.81	15.3	23.8	6.68	1.61	3.66	4.88	3.35	1.87	5.48	1959
1960	1.03	0.780	1.20	4.45	12.7	17.8	4.63	0.957	0.874	0.862	0.711	0.828	3.88	1960
1961	0.487	0.488	0.643	2.37	19.8	15.9	1.87	0.890	0.705	1.02	0.734	0.590	3.71	1961
1962	0.491	0.453	0.473	4.22	13.4	16.0	5.00	2.11	1.81	2.05	1.85	1.45	4.28	1962
1963	1.04	1.14	1.13	4.15	15.6	11.8	3.93	1.57	1.04	0.827	0.945	0.830	3.67	1963
1964	0.675	0.536	0.501	1.58	11.9	26.9	7.36	3.25	3.81	2.76	1.55	1.00	5.14	1964
1965	0.638	0.755	0.602	4.55	14.8	14.3	2.58	1.42	1.48	1.35	1.11	0.632	3.73	1965
1966	0.714	0.568	0.597	3.27	16.3	16.9	5.48	1.55	1.02	1.07	1.04	0.945	4.14	1966
1967	0.736	0.709	0.810	1.98	14.4	23.9	3.32	0.832	0.732	1.15	1.26	0.948	4.23	1967
1968	0.884	0.875	1.50	2.08	16.3	19.3	4.43	1.70	2.72	2.27	1.82	1.01	4.56	1968
1969	0.601	0.575	0.595	5.31	20.8	10.3	3.73	1.14	1.18	1.76	2.31	1.38	4.17	1969
1970	0.981	0.668	0.653	1.51	12.0	11.3	2.06	0.993	1.03	0.866	0.660	0.757	2.85	1970
1971	0.735	1.89	1.09	3.67	22.5	16.3	5.65	0.968	0.787	0.601	0.732	0.569	4.90	1971
1972	0.713	0.580	1.35	2.84	21.9	21.8	6.03	1.74	1.27	1.34	1.12	0.604	5.30	1972
1973	0.724	0.648	0.626	2.50	14.0	9.56	2.43	0.881	0.604	1.33	1.48	1.27	3.06	1973
1974	0.867	0.686	0.942	4.77	14.4	21.8	6.35	1.49	0.922	0.758	0.755	0.672	4.57	1974
1975	0.577	0.466	0.472	1.30	12.5	18.0	3.67	1.66	1.52	1.13	1.74	1.23	3.55	1975
1976	0.974	0.775	0.728	3.52	18.6	17.3	8.44	4.86	3.08	1.56	1.12	0.630	5.14	1976
1977	0.644	0.572	0.570	4.21	13.8	10.9	2.15	0.946	0.998	0.817	0.606	0.702	3.08	1977
1978	0.617	0.607	1.27	5.15	14.7	15.2	4.40	1.59	3.70	2.22	1.30	0.946	4.32	1978
1979	0.674	0.590	0.954	2.63	15.4	9.28	2.43	0.659	0.812	0.743	0.624	0.603	2.98	1979
1980	0.478	0.460	0.587	6.70	14.0	8.44	2.58	1.29	1.35	1.18	1.33	1.25	3.14	1980
1981	1.28	0.980	1.27	2.81	18.0	14.5	9.04	2.47	1.56	2.54	2.74	1.49	4.82	1981
1982	0.636	0.698	1.00	1.97	15.5	17.4	6.20	2.60	1.82	1.88	1.35	0.977	4.53	1982
1983	0.823	0.932	2.10	5.54	18.8	12.5	4.87	2.14	2.16	1.36	1.84	1.15	4.52	1983
1984	1.08	0.676	1.16	3.42	10.8	19.6	6.32	1.27	1.40	1.14	0.982	0.713	4.03	1984
MEAN	0.806	0.747	0.891	3.31	16.3	15.7	4.87	1.65	1.56	1.52	1.38	0.989	4.15	MEAN

LOCATION - LAT 49 54 27 N   DRAINAGE AREA, 201 km²
LONG 118 07 31 W   NATURAL FLOW

BARNES CREEK NEAR NEEDLES - STATION NO 08NE077

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1951	38.8 AT 21:00 PST ON MAY 22	33.7 ON MAY 23	0.680 ON MAR 17	137 000	1951
1952	40.5 AT 03:10 PST ON MAY 20	35.2 ON MAY 20	0.368 ON NOV 28	134 000	1952
1953	31.7 AT 03:30 PST ON MAY 19	26.5 ON MAY 19	0.357 ON MAR 1 *	126 000	1953
1954	38.8 AT 22:30 PST ON MAY 19	34.5 ON MAY 19	0.623 ON JAN 16	164 000	1954
1955	49.3 AT 23:00 PST ON JUN 12	41.8 ON JUN 12	0.662 ON MAR 24	134 000	1955
1956	55.3 AT 21:40 PST ON MAY 20	46.7 ON MAY 20	0.595 ON DEC 6	142 000	1956
1957	37.7 AT 18:15 PST ON MAY 13	34.0 ON MAY 13	0.510 ON MAR 13	117 000	1957
1958	39.1 AT 20:30 PST ON MAY 22	32.6 ON MAY 22	0.498 ON JAN 22	104 000	1958
1959	40.5 AT 22:40 PST ON JUN 2	35.7 ON JUN 3	0.568 ON JAN 3	173 000	1959
1960	37.4 AT 21:00 PST ON JUN 3	29.2 ON JUN 3	0.447 ON DEC 5	122 000	1960
1961	53.2 AT 22:00 PST ON MAY 26	44.2 ON MAY 27	0.357 ON MAR 4	117 000	1961
1962	32.6R AT 22:30 PST ON MAY 28	28.3E ON MAY 29	0.453B ON JAN 18	135 000	1962
1963	39.9 AT 22:00 PST ON MAY 24	34.5 ON MAY 24	0.487 ON JAN 11	116 000	1963
1964	47.0 AT 21:45 PST ON JUN 6	41.1 ON JUN 6	0.419 ON MAR 24	162 000	1964
1965	34.5 AT 21:15 PST ON MAY 28	30.9 ON MAY 29	0.487 ON DEC 14	118 000	1965
1966	40.5 AT 06:45 PST ON JUN 1	38.7 ON JUN 1	0.442 ON MAR 3	131 000	1966
1967	---	50.7E ON JUN 3 *	0.515 ON MAR 13	134 000	1967
1968	42.8 AT 19:45 PST ON JUN 2	36.5 ON JUN 2	0.572 ON JAN 27	144 000	1968
1969	38.1 AT 22:24 PST ON MAY 24	32.6 ON MAY 12	0.544B ON MAR 3	132 000	1969
1970	31.1 AT 20:30 PST ON JUN 3	25.5 ON JUN 4	0.445 ON NOV 22	90 000	1970
1971	62.9 AT 09:15 PST ON MAY 13 *	50.7 ON MAY 13	0.377 ON DEC 7	155 000	1971
1972	60.3 AT 21:20 PST ON MAY 31	50.1 ON MAY 31	0.428E ON FEB 10	168 000	1972
1973	34.5 AT 19:15 PST ON MAY 16	28.8 ON MAY 17	0.589E ON FEB 22	96 700	1973
1974	38.5 AT 22:15 PST ON JUN 16	33.0 ON MAY 26	0.481 ON DEC 23	144 000	1974
1975	38.2 AT 17:14 PST ON JUN 2	31.1 ON JUN 2	0.388 ON MAR 26	112 000	1975
1976	35.4 AT 22:58 PST ON JUN 15	31.1 ON JUN 16	0.408E ON FEB 6	163 000	1976
1977	27.0 AT 03:35 PST ON MAY 3	24.0 ON MAY 3	0.473E ON NOV 20	97 500	1977
1978	31.4 AT 20:58 PST ON MAY 21	25.7 ON MAY 21	0.481 ON MAR 3	138 000	1978
1979	28.5 AT 00:41 PST ON MAY 27	22.6 ON MAY 26	0.371 ON DEC 16	93 800	1979
1980	33.0 AT 00:28 PST ON APR 29	27.0 ON APR 29	0.377 ON JAN 5	99 300	1980
1981	39.9 AT 19:30 PST ON MAY 25	33.7 ON MAY 22	0.604 ON FEB 10	155 000	1981
1982	38.0 AT 19:16 PST ON MAY 25	32.6 ON MAY 25	0.550B ON FEB 12	143 000	1982
1983	40.9 AT 20:59 PST ON MAY 29	33.6 ON MAY 29	0.585 ON FEB 6	142 000	1983
1984	44.2 AT 12:40 PST ON JUN 28	31.0 ON MAY 30	0.516 ON NOV 1	127 000	1984
				131 000	MEAN

B - ICE CONDITIONS   * - EXTREME RECORDED FOR THE PERIOD OF RECORD
E - ESTIMATED   R - REVISED SINCE JAN 1980

TABLE 8.2.4
Sample Annual Surface Water Data

BAKER CREEK AT QUESNEL - STATION NO 08KE016

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1984

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0.745 B	0.790 B	1.02 B	3.78 E	7.92	7.58	2.67 E	0.905	0.556 E	1.31	1.36 B	1.19 B	1
2	0.745 B	0.798 B	1.05 B	3.76 E	7.81	7.25 E	2.64 E	1.08	0.564 E	1.35	1.30 B	1.18 B	2
3	0.748 B	0.798 B	1.08 B	3.74 E	7.72	6.91 E	2.66	1.13	0.572 E	1.38	1.27 B	1.18 B	3
4	0.750 B	0.787 B	1.12 B	3.86 E	8.60	6.58	2.64	1.11 E	0.580	1.30	1.23 B	1.17 B	4
5	0.760 B	0.790 B	1.17 B	4.00 E	8.57 E	6.12	2.71	1.09 E	0.828	1.18	1.20 B	1.18 B	5
6	0.765 B	0.799 B	1.18 B	4.25 E	8.55 E	6.55	3.20	1.06 E	0.951	1.24 E	1.17 B	1.19 B	6
7	0.780 B	0.800 B	1.19 B	4.45 E	8.53	7.21	3.26 E	1.04	0.990	1.35 E	1.16 B	1.20 B	7
8	0.790 B	0.803 B	1.20 B	4.66 E	7.61	7.58	3.23 E	1.13	1.17 E	1.43 E	1.14 B	1.20 B	8
9	0.780 B	0.807 B	1.28 B	4.95 E	8.01	8.68 E	3.39	0.948	1.34 E	1.51	1.13 B	1.21 B	9
10	0.770 B	0.815 B	1.29 B	5.20 E	8.29	8.78 E	3.17	0.905	1.52	1.83	1.13 B	1.21 B	10
11	0.750 B	0.830 B	1.32 B	5.40 E	9.21	10.8	3.08	0.894 E	1.47	2.52	1.13 B	1.21 B	11
12	0.740 B	0.840 B	1.35 B	5.70 E	9.16 E	11.4	2.94	0.882 E	1.47	2.53	1.14 B	1.20 B	12
13	0.740 B	0.860 B	1.39 B	6.01	9.12 E	8.78	2.96	0.871	1.46	2.30 E	1.15 B	1.20 B	13
14	0.735 B	0.850 B	1.43 B	6.38	9.08	8.44	3.03 E	0.863	1.43	2.06 E	1.16 B	1.18 B	14
15	0.725 B	0.862 B	1.46 B	7.37 E	11.4	7.29	3.10 E	0.837	1.41 E	1.83	1.17 B	1.16 B	15
16	0.720 B	0.870 B	1.50 B	8.35	14.1	6.78 E	3.17	0.871	1.39 E	1.85	1.18 B	1.14 B	16
17	0.727 B	0.874 B	1.52 B	11.3	15.2	6.39 E	2.74	0.863	1.37	1.84	1.19 B	1.12 B	17
18	0.730 B	0.897 B	1.57 B	13.1	16.5	5.78	2.38	0.885 E	1.38	1.87	1.20 B	1.10 B	18
19	0.735 B	0.907 B	1.61 B	12.9 E	15.6 E	5.37	2.14	0.908 E	1.56	0.956	1.21 B	1.09 B	19
20	0.739 B	0.940 B	1.67 B	12.7 E	15.1 E	4.60	1.89	0.831	1.87	1.16 E	1.22 B	1.06 B	20
21	0.740 B	0.955 B	1.72 B	12.6 E	14.4 E	4.16	1.78 E	0.905	1.88	1.36 E	1.23 B	1.07 B	21
22	0.748 B	0.970 B	1.85 E	12.4 E	13.7	3.70	1.62 E	0.863	1.85 E	1.56	1.24 B	1.04 B	22
23	0.755 B	0.980 B	2.08 E	12.2	12.8	3.57 E	1.48	0.678	1.83 E	1.53	1.25 B	1.02 B	23
24	0.762 B	0.990 B	2.55 E	10.9	11.6	3.45 E	1.38	0.628	1.80	1.56	1.27 B	1.01 B	24
25	0.760 B	0.990 B	2.95 E	11.4	8.90	3.32	1.32	0.638 E	1.81	1.66	1.27 B	1.00 B	25
26	0.760 B	0.990 B	3.25 E	8.66	8.39 E	3.30	1.34	0.648 E	1.79	1.75	1.26 B	0.995 B	26
27	0.765 B	0.990 B	3.60 E	8.86	7.69 E	3.32	1.31	0.658 E	1.81	1.67 B	1.25 B	0.985 B	27
28	0.763 B	0.990 B	3.90 E	8.60 E	7.38	2.88	1.26 E	0.668	1.55	1.56 B	1.24 B	0.975 B	28
29	0.762 B	0.990 B	3.90 E	8.25 E	7.21	2.74	1.20 E	0.548	1.48 E	1.46 B	1.22 B	0.980 B	29
30	0.770 B		3.83 E	7.89	7.24	2.71 E	1.16	0.516	1.42 E	1.43 B	1.21 B	0.970 B	30
31	0.780 B		3.80 E		7.01		1.09	0.548		1.39 B		0.980 B	31
TOTAL	23.347	25.586	59.84	233.77	312.80	182.73	71.94	26.509	40.686	50.026	36.28	34.415	TOTAL
MEAN	0.753	0.882	1.93	7.79	10.1	6.09	2.32	0.855	1.36	1.61	1.21	1.11	MEAN
MAX	0.790	0.990	3.90	13.1	16.5	11.4	3.39	1.13	1.88	2.53	1.36	1.21	MAX
MIN	0.726	0.787	1.02	3.74	7.01	2.68	1.09	0.516	0.556	0.956	1.13	0.970	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN 2.06
MAXIMUM DAILY 16.5 ON MAY 18
MINIMUM DAILY 0.516 ON AUG 30

SUMMARY FOR THE YEAR 1984

TYPE OF GAUGE - MANUAL
LOCATION - LAT 52 58 23 N
LONG 122 31 11 W
DRAINAGE AREA 1 570 km²

B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	2 020	JUL	6 220
FEB	2 210	AUG	2 290
MAR	5 170	SEP	3 520
APR	20 200	OCT	4 320
MAY	27 000	NOV	3 130
JUN	15 800	DEC	2 970

TOTAL DISCHARGE 94 900 dam³

BARNES CREEK NEAR NEEDLES - STATION NO 08NE077

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1984

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0.988	1.02	0.785	1.52	3.87	16.8	17.5	1.73	0.907	1.14	0.516	0.880	1
2	0.974	0.982	0.781	1.61	4.39	15.5	15.5	1.68	0.870	1.12	0.801	0.829	2
3	0.986	0.953	0.776	1.66	4.36	14.9	13.9	1.61	0.848	1.10	1.28	0.546	3
4	1.08	0.939	0.751	1.69	4.32	15.4	13.0	1.50	0.820	1.10	1.13	0.677	4
5	1.58	0.924	0.777	1.79	4.39	17.6	12.1	1.58	0.823	1.15	1.08	0.717	5
6	1.37	0.930	0.788	1.88	4.59	18.0	10.8	1.47	2.18	1.10	1.06	0.773	6
7	1.28	0.914	0.792	1.78	5.49	19.9	9.09	1.38	1.70	1.07	1.05	0.855	7
8	1.23	0.911	0.817	1.74	6.14	24.1	8.26	1.31	1.58	1.06	1.07	0.892	8
9	1.18	0.915	0.848	1.71	7.03	22.6	7.78	1.24	1.63	1.15	1.01	0.825 B	9
10	1.16	0.904	0.915	1.73	5.86	21.8	7.47	1.29	1.83	1.14	1.01	0.780 B	10
11	1.14	0.895	1.04	1.65	5.81	22.5	7.40	1.63	1.97	1.31	0.998	0.745 B	11
12	1.12	0.907	1.02	1.66	5.43	24.9	6.90	1.49	1.97	1.54	1.05	0.765 B	12
13	1.07	0.892	1.01	1.67	6.00	26.8	6.22	1.82	2.28	1.38	1.23	0.745 B	13
14	0.733	0.885	1.01	1.75	11.1	28.3	5.75	1.38	1.90	1.32	1.17	0.735 B	14
15	0.874	0.880	1.05	2.30	11.6	27.6	5.31	1.24	1.62	1.28	1.03	0.740 B	15
16	1.07	0.861	1.09	3.90	11.1	24.5	5.01	1.19	1.45	1.25	0.988	0.705	16
17	0.881	0.840	1.14	5.55	10.6	21.0	4.67	1.16	1.36	1.22	0.983	0.588	17
18	0.993	0.811	1.19	5.29	10.4	18.1	4.25	1.15	1.29	1.16	1.02	0.534	18
19	1.03	0.848	1.16	6.14	13.6	16.3	3.88	1.12	1.23	1.10	0.971	0.688	19
20	1.03	0.860	1.19	6.94	14.9	18.1	3.59	1.09	1.22	1.13	0.996	0.765 B	20
21	1.02	0.863	1.42	6.76	12.8	16.5	3.55	1.03	1.39	1.07	0.952	0.740 B	21
22	1.03	0.833	1.48	6.59	11.5	15.5	3.21	1.01	1.34	1.11	0.914	0.690 B	22
23	1.01	0.832	1.55	5.70	13.0	16.3	2.91	0.969	1.30	1.08	0.938	0.655 B	23
24	0.982	0.827	1.63	5.09	12.1	16.9	2.74	0.932	1.24	1.10	0.910	0.658 B	24
25	0.986	0.817	1.60	4.52	11.3	16.0	2.51	0.909	1.21	1.18	0.902	0.675 B	25
26	0.964	0.778	1.51	4.21	11.6	16.0	2.45	0.906	1.21	1.16	0.880	0.680 B	26
27	0.971	0.811	1.46	4.13	13.4	15.7	2.28	1.13	1.16	1.11	0.852	0.680 B	27
28	1.13	0.789	1.46	3.86	15.3	15.8	2.13	1.24	1.15	1.09	0.901	0.665 B	28
29	1.15	0.781	1.43	3.81	20.5	28.2	2.02	1.12	1.15	0.998	0.902	0.645 B	29
30	1.04		1.44	3.81	31.0	17.6	1.95	1.03	1.15	0.973	0.879	0.630 B	30
31	0.960		1.50		23.6		1.86	0.983		0.562		0.620 B	31
TOTAL	33.010	25.384	35.408	102.56	327.06	587.4	195.96	39.299	41.998	35.283	29.483	22.112	TOTAL
MEAN	1.06	0.875	1.14	3.42	10.6	19.6	6.32	1.27	1.40	1.14	0.982	0.713	MEAN
MAX	1.58	1.02	1.63	6.94	31.0	28.3	17.5	1.82	2.28	1.54	1.28	0.892	MAX
MIN	0.733	0.778	0.751	1.52	3.87	14.9	1.86	0.906	0.820	0.562	0.516	0.534	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 4.03
MAXIMUM DAILY, 31.0 ON MAY 30
MINIMUM DAILY, 0.516 ON NOV 1
MAXIMUM INSTANTANEOUS,
44.2 AT 12 40 PST ON JUN 28

SUMMARY FOR THE YEAR 1984

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 54 27 N
LONG 118 07 31 W
DRAINAGE AREA, 201 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	2 850	JUL	16 900
FEB	2 190	AUG	3 400
MAR	3 060	SEP	3 630
APR	8 860	OCT	3 050
MAY	28 300	NOV	2 540
JUN	50 800	DEC	1 910

TOTAL DISCHARGE, 127 000 dam³

9. WATER LICENCE LISTINGS

The water licences listed in this section have been pre-selected by purpose and quantity as sites where potential exists for small hydro power development. However it is expected that in most cases existing uses may take priority and a proper enquiry to the licence holder should precede any development plans. Further information is provided in Section 2.8 and the database.

WATER LICENCES

Lic.#	Owner	Source	Location	Precinct	#PRP	PRP	QTY	Units
628C	SALMON ARM DISTRICT OF	E CANOE CR	82L/11E(6)	13E	01	00A	539000.000	D
945C	KELOWNA CITY OF	OKANAGAN LK	8420A	30A	01	00A	500000.000	D
1447C	HEFFLEY IRRIGATION DISTRI	HEFFLEY CR	3814	13H	01	03A	237.500	B
1591C	HEFFLEY IRRIGATION DISTRI	EDWARDS CR	3818	13H	01	03A	240.000	B
1591C				13H	02	01A	2000.000	D
1993C	PRINCE GEORGE CITY OF	NECHAKO R	93.6.097	24E	01	00A	270000.000	D
2061C	HEFFLEY IRRIGATION DISTRI	HEFFLEY LK	3817	13H	01	03A	430.000	B
2063C	CAWSTON IRRIGATION DISTRI	SIMILKAMEEN R	6933C	23B	01	03A	1200.000	B
2296C	ARMSTRONG CITY OF	FORTUNE CR	8521	30G	01	00A	500000.000	D
2361C	ENDERBY CITY OF	BRASH CR	8527A	30G	01	00A	500000.000	D
2389C	DUNCAN BAYNES LTD	HAINES CR	92.0.095	05A	01	03B	444.000	B
2835C	HEFFLEY IRRIGATION DISTRI	ROBBINS CR	3814	13H	01	03A	957.000	B
2835C				13H	02	01A	500.000	D
2837C	HEFFLEY IRRIGATION DISTRI	HEFFLEY CR	3814	13H	01	03A	660.000	B
2837C				13H	02	01A	1000.000	D
2838C	HEFFLEY IRRIGATION DISTRI	HEFFLEY CR	3814	13H	01	03A	327.000	B
2838C				13H	02	01A	1000.000	D
2839C	HEFFLEY IRRIGATION DISTRI	HEFFLEY CR	3814	13H	01	03A	425.000	B
2840C	HEFFLEY IRRIGATION DISTRI	HEFFLEY CR	3814	13H	01	03A	957.000	B
2840C				13H	02	01A	1000.000	D
2843C	HEFFLEY IRRIGATION DISTRI	HEFFLEY CR	3814	13H	01	03A	382.000	B
2843C				13H	02	01A	500.000	D
3343C	NORTH VANCOUVER DISTRICT	MACKAY CR	8100	29E	01	00A	255000.000	D
3532C	HEFFLEY IRRIGATION DISTRI	ROBBINS CR	3814	13H	01	03A	407.000	B
3533C	HEFFLEY IRRIGATION DISTRI	HEFFLEY CR	3814	13H	01	03A	552.000	B
3533C				13H	02	01A	1000.000	D
3609C	HEFFLEY IRRIGATION DISTRI	HEFFLEY CR	3814	13H	01	03A	407.000	B
3609C				13H	02	01A	1000.000	D
3681C	HEFFLEY IRRIGATION DISTRI	DEVICK LKS	3828	13H	01	03A	325.000	B
3681C				13H	02	01A	1000.000	D
3756C	HEFFLEY IRRIGATION DISTRI	ARMOUR CR	3817	13H	01	03A	327.000	B
3756C				13H	02	01A	1000.000	D
3757C	HEFFLEY IRRIGATION DISTRI	ARMOUR CR	3817	13H	01	03A	512.000	B
3757C				13H	02	01A	1000.000	D
3778C	WESTBANK IRRIGATION DISTR	POWERS CR	8493	30D	01	03A	500.000	B
3778C				30D	02	01A	1000.000	D
3806C	MERVYN DOUGLAS	ELWYN SPR	1103	05C	01	03B	270.000	B
3806C				05C	02	01A	500.000	D
4489C	GRAND FORKS CITY OF	KETTLE R	3031B	11B	01	00A	500000.000	D
4627C	TRAIL CITY OF	LAWLEY CR	82F/4E(B)	18K	01	00A	180000.000	D
4876C	TRAIL CITY OF	CAMBRIDGE CR	82.F.002.3.3	18K	01	00A	800000.000	D
4877C	TRAIL CITY OF	VIOLIN LK	82F/4E(B)	18K	01	00A	800000.000	D
5315C	NORTH VANCOUVER CITY OF	LYNN CR	8100	29E	01	00A	4524000.000	D
5333C	LADYSMITH TOWN OF	STOCKING LK	4800	17A	01	00A	500000.000	D
5520C	INDIAN AFFAIRS BRANCH	INTLPAM CR N & S FK	542	02L	01	03B	400.000	B
5729C	PENTICTON CITY OF	PENTICTON CR	82.E.053.1.2	07B	01	03A	4375.000	B
5729C				07B	02	01A	20000.000	D
5731C	PENTICTON CITY OF	ELLIS CR	1550	07B	01	03A	1405.000	B
5731C				07B	02	01A	20000.000	D
5732C	PENTICTON CITY OF	ELLIS CR	1550	07B	01	00A	1715750.000	D
5732C				07B	02	03A	670.000	B
5988C	GRAND FORKS IRRIGATION DI	KETTLE R	3031	11B	01	03A	2200.000	B
6029C	VERNON CITY OF	B X CR	8582E	30F	01	00A	150000.000	D
6663C	INDIAN AGENCY-LOWER SIMIL	SUSAP CR	6931	23B	01	03B	1023.000	B
6663C				23B	02	01A	5000.000	D
6679C	INDIAN AFFAIRS BRANCH	CAHILL CR & WINTERS CR	6903	23A	01	03B	930.000	B
6683C	INDIAN AFFAIRS BRANCH	WOLFE CR	6960	23C	01	03B	276.000	B
6686C	INDIAN AFFAIRS BRANCH	JOHNS CR	6902	23A	01	03B	672.000	B
6690C	INDIAN AFFAIRS BRANCH	INKANEEP CR	82E00334	07A	01	03B	2016.000	B
6692C	INDIAN AFFAIRS BRANCH	NASWHITO CR	8591	30F	01	03B	672.000	B

WATER LICENCES

Lic.#	Owner	Source	Location	Precinct	#PRP	PRP	QTY	Units
6697C	INDIAN AFFAIRS BRANCH	ASHNOLA R	6901	23A	01	03B	672.000	B
6702C	INDIAN AFFAIRS BRANCH	SNEHUMPTION CR	6930	23B	01	03B	672.000	B
6863C	NELSON CITY OF	APEX CR	82F/6E	18P	01	00A	3000000.000	D
6864C	NELSON CITY OF	CLEARWATER CR	82F/6E	18P	01	00A	5250000.000	D
6897C	GRAND FORKS IRRIGATION DI	KETTLE R	3031	11B	01	03A	240.000	B
6940C	NELSON CITY OF	COTTONWOOD CR	5226A	18H	01	00A	539000.000	D
7001C	GREATER NANAIMO WATER DIS	S NANAIMO R	92F/1	17A	01	00A	4500000.000	D
7083C	INDIAN AFFAIRS BRANCH	PAUL CR	6901	23A	01	03B	274.800	B
7083C				23A	02	01A	1000.000	D
7084C	INDIAN AFFAIRS BRANCH	ASHNOLA R	6901	23A	01	03B	447.000	B
7084C				23A	02	01A	8000.000	D
7110C	INDIAN AFFAIRS BRANCH	SINTLEHAHTEN CR	6932B	23B	01	03B	522.000	B
7110C				23B	02	01A	3000.000	D
7111C	INDIAN AFFAIRS BRANCH	SHOUDY CR	6930	23B	01	03B	500.000	B
7111C				23B	02	01A	5000.000	D
7164C	INDIAN AFFAIRS BRANCH	LEON CR & UNNAMED CR	253	02J	01	03B	669.600	B
7164C				02J	02	01A	2500.000	D
7165C	INDIAN AFFAIRS BRANCH	LEBASQUE CR	258	02J	01	03B	270.000	B
7165C				02J	02	01A	3000.000	D
7166C	INDIAN AFFAIRS BRANCH-BRI	ANTOINE/APPLESPRING ET AL	92.J.090	02D	01	03B	3399.700	B
7359C	INDIAN AFFAIRS BRANCH	ST MARY R	1342	06G	01	03B	2688.000	B
7359C				06G	02	01A	30000.000	D
7496C	SLOCAN VILLAGE OF	GWILLIM CR	5551C	18M	01	00A	100000.000	D
7618C	INDIAN AGENCY-NOOAITCH BA	NICOLA R ETC	92.I.015.4.1	21C	01	03B	1270.000	B
7618C				21C	02	01A	7500.000	D
7793C	INDIAN AFFAIRS BRANCH	NICOAMEN R	92I/6W(C)	02I	01	03B	207.000	B
7793C				02I	02	01A	1000.000	D
7799C	INDIAN AGENCY-SHACKAN BAN	NICOLA R ETC	6102	21C	01	03B	1713.000	B
7799C				21C	02	01A	15000.000	D
7802C	INDIAN AFFAIRS BRANCH	ANAHIM CR	93.B.005	05A	01	03B	1344.000	B
7802C				05A	02	01A	30000.000	D
8058C	UNIVERSITY ENDOWMENT LAND	CAPILANO R	92G/6-6.H	29E	01	00	10.000	Q
8058C				29E	02	08A	1700.000	B
8198C	PENTICTON CITY OF	HOWARD LK	82E/11W(C)	11E	01	03A	250.000	B
8288C	ROSSLAND CITY OF	S MURPHY CR	82.F.001.4.4	18K	01	00A	100000.000	D
8289C	ROSSLAND CITY OF	HANNA CR	82.F.001.4.4	18K	01	00A	753834.000	D
8433C	INDIAN AFFAIRS BRANCH	ANAHIM CR	93.B.005	05A	01	03B	600.000	B
8553C	MCGOWAN JOHN A ESTATE OF	N THOMPSON R	3820	13H	01	03B	200.000	B
8562C	NELSON CITY OF	FIVE MILE CR	82F/11-B	18H	01	00A	1615359.000	D
8582C	ROSSLAND CITY OF	TOPPING CR	5279	18K	01	00A	100000.000	D
8819C	NORTH VANCOUVER DISTRICT	KENNEDY CR	8100	29E	01	00A	750000.000	D
8997C	INDIAN AGENCY-WILLIAMS LA	ANAHIM CR	93.B.005	05A	01	03B	1356.000	B
8997C				05A	02	01A	20000.000	D
9121C	HEFFLEY IRRIGATION DISTRI	CHRISTIAN CR	3636	13B	01	03A	600.000	B
9245C	DOUGLAS LAKE CATTLE CO	HATHEUME CR	92H/NE	21D	01	03B	330.000	B
9359C	COLDSTREAM DISTRICT OF	COLDSTREAM CR	8580	30C	01	00A	250000.000	D
9827C	PRINCE RUPERT CITY OF	WOODWORTH LK	6704	25C	01	00A	4524000.000	D
10010C	WEST VANCOUVER DISTRICT O	NELSON CR	8101A	29E	01	00A	400000.000	D
10875C	POWELL RIVER DISTRICT OF	POWELL R	92F/NE	29D	01	00A	539000.000	D
11328C	INDIAN AFFAIRS BRANCH	SIMILKAMEEN R	6903	23A	01	03B	900.000	B
11728C	SUNSHINE COAST REGIONAL D	CHAPMAN CR	92.G.042.3.4	29C	01	00A	300000.000	D
13193C	NICOLA RANCH LTD	NICOLA R	92.I.017.4.1	21A	01	03B	400.000	B
13194C	NICOLA RANCH LTD	CLAPPERTON CR & SHUTA CR	92.I.017.4.1	21A	01	03B	5000.000	B
13206C	VERNON CITY OF	B X CR	8582E	30F	01	00A	500000.000	D
13533C	KEREMEOS IRRIGATION DISTR	SIMILKAMEEN R	6933B	23B	01	03A	1260.000	B
13604C	INDIAN AFFAIRS BRANCH	INKIKUH CR	92I/6W(F)	02A	01	03B	725.000	B
13604C				02A	02	01A	2000.000	D
13605C	INDIAN AFFAIRS BRANCH	PIMAINUS CR	92I/6W(F)	02A	01	03B	725.000	B
13605C				02A	02	01A	2000.000	D
14072C	INDIAN AFFAIRS BRANCH	HAWKS CR	1159	05D	01	03B	325.000	B

WATER LICENCES

Lic.#	Owner	Source	Location	Precinct	#PRP	PRP	QTY	Units
14229C	PENTICTON CITY OF	PENTICTON CR	82.E.053.1.2	07B	01	00A	4000000.000	D
14396C	MOON MELVILLE C S ESTATE	MACKIN CR	93.B.028	05D	01	03B	250.000	B
14398C	MOON AGNES	MACKIN CR	93.B.028	05D	01	03B	250.000	B
14400C	MOON MELVILLE C S ESTATE	MACKIN CR	93.B.028	05D	01	03B	250.000	B
14402C	REAY ERIC	MACKIN CR	93.B.028	05D	01	03B	250.000	B
14455C	POWELL RIVER DISTRICT OF	HAMMIL LK	92F/16-D	29D	01	00A	500000.000	D
14486C	HAUGLAND HARRY O	BARNEY CR	256	02J	01	03B	200.000	B
14486C				02J	02	01A	500.000	D
14503C	CHASE IRRIGATION DISTRICT	S THOMPSON R	3708	13D	01	03A	500.000	B
14565C	KAUFMAN ELWOOD A & MARGIE	MCLEESE CR	1158	05D	01	03B	500.000	B
14569C	SUMMERLAND DISTRICT OF	TROUT CR	1600	07C	01	00A	250000.000	D
14633C	KELOWNA CITY OF	OKANAGAN LK	8420A	30A	01	00A	1500000.000	D
15174C	WEST VANCOUVER DISTRICT O	NELSON CR	8101A	29E	01	00A	600000.000	D
15177C	MILLER RANCHES LTD	KANEVALE CR	6060	21B	01	03B	316.750	B
15216C	KAMLOOPS CITY OF	JAMIESON CR	3822	13H	01	03A	14000.000	B
15218C	KAMLOOPS CITY OF	LANES CR	3821	13H	01	03A	2000.000	B
15442C	WESTBANK IRRIGATION DISTR	POWERS CR	8492C	30D	01	03A	381.250	B
15443C	WESTBANK IRRIGATION DISTR	POWERS CR	8492C	30D	01	03A	728.750	B
15444C	WESTBANK IRRIGATION DISTR	POWERS CR	8492C	30D	01	03A	387.500	B
15505C	JOHNSON NESTER & MAE B	LUXOR CR	2950	10H	01	03B	250.000	B
15506C	VERMILLION IRRIGATION DIS	KINDERSLEY CR	2950	10H	01	03A	750.000	B
15513C	HEICHMAN CLINTON L	MCKAY CR	252	02J	01	03B	375.000	B
15548C	CANABO CATTLE CO	PORTER LK	92P/SE	02B	01	03B	200.000	B
15709C	MACMILLAN BLOEDEL LTD	GLENLION CR	92L/11-E	17B	01	00	100000.000	D
15908C	GLENMORE IRRIGATION DISTR	KELOWNA CR	82.E.094.3.3	30A	01	03A	6000.000	B
15910C	GLENMORE IRRIGATION DISTR	OKANAGAN LK	8423B	30A	01	03A	1800.000	B
15918C	BLACK MOUNTAIN IRRIGATION	MISSION CR	8406	30A	01	03A	14485.000	B
15920C	BLACK MOUNTAIN IRRIGATION	GOPHER CR & BLACK BR	8406	30A	01	00A	135000.000	D
15956C	SOUTH EAST KELOWNA IRRIGA	HYDRAULIC CR	8406	30A	01	03A	10000.000	B
15958C	SOUTH EAST KELOWNA IRRIGA	KLO CR	8419A	30A	01	03A	6000.000	B
15960C	SOUTH EAST KELOWNA IRRIGA	KLO CR	82E/11-W(F)	30A	01	03A	2500.000	B
15962C	SOUTH EAST KELOWNA IRRIGA	BROWNE LK	82.E.084.2.3	30A	01	03A	500.000	B
15966C	SOUTH EAST KELOWNA IRRIGA	PRIEST CR	8418A	30A	01	03A	300.000	B
15968C	SOUTH EAST KELOWNA IRRIGA	KLO CR	8419B	30A	01	00A	100000.000	D
15969C	SOUTH EAST KELOWNA IRRIGA	STIRLING CR	82.E.084.2.3	11E	01	03A	2500.000	B
15973C	SOUTH EAST KELOWNA IRRIGA	PEAR LK	82.E.084.2.3	11E	01	03A	600.000	B
15975C	SOUTH EAST KELOWNA IRRIGA	HAYNES LK	82.E.084.2.3	11E	01	03A	1200.000	B
15989C	YARROW WATERWORKS DISTRIC	KNOX CR & VALKERT CR	5732	20C	01	00A	250000.000	D
15994C	PEACHLAND IRRIGATION DIST	MACDONALD CR	82E/13-W(D)	30D	01	03A	500.000	B
16181C	IDEAL CEMENT CO (B C) LTD	EMILY LK	92.F.078.1.4	29G	01	05C	100000.000	D
16181C				29G	02	01A	10000.000	D
16226C	TRAIL CITY OF	TIGER CR	82.F.002.3.3	18K	01	00A	576000.000	D
16295C	GREATER VANCOUVER WATER D	CAPILANO R	8100	29E	01	00A	154600000.000	D
16297C	GREATER VANCOUVER WATER D	SEYMOUR R	92G/7-E	29E	01	00A	175200000.000	D
16366C	POWELL RIVER DISTRICT OF	POWELL LK	8250	29D	01	00A	100000.000	D
16412C	SUMMERLAND DISTRICT OF	TROUT CR	1600	07C	01	03A	3170.000	B
16413C	SUMMERLAND DISTRICT OF	TROUT CR	1600	07C	01	03A	6000.000	B
16415C	SUMMERLAND DISTRICT OF	ENEAS CR & LATIMER BR	1604	07C	01	03A	3000.000	B
16417C	SUMMERLAND DISTRICT OF	PRAIRIE CR	1600	07C	01	03A	500.000	B
16557C	ASHCROFT RANCH	MEDICINE CR	324	02B	01	03B	700.000	B
16559C	ASHCROFT RANCH	CORNWALL CR	363	02E	01	03B	200.000	B
16978C	DEWDNEY-ALOUETTE REGIONAL	CANNELL LK	92G/SE	20I	01	00A	500000.000	D
16991C	MACMILLAN BLOEDEL LTD-ALP	SPROAT LK	92F/SEW	01A	01	02A	31.000	Q
17088C	ELLISON IRRIGATION DISTRI	KELOWNA CR	82.E.094.3.3	30A	01	03A	2000.000	B
17090C	ELLISON IRRIGATION DISTRI	WHELAN CR	8425A	30A	01	03A	200.000	B
17171C	DUTCH DAIRY HOLDINGS LTD	N THOMPSON R	3822	13H	01	03B	500.000	B
17292C	VINSULLA IRRIGATION DISTR	MARTIN MEADOW CR ETC	3630	13B	01	03A	400.000	B
17334C	CULTUS LAKE PARK BOARD	ASCAPHUS CR	5732B	20C	01	00A	100000.000	D
17349C	MAHON HUGH M & PAMELA H	BUNTING CR	1162	05D	01	03B	250.000	B
17439C	GOUDREAU BERTRAND E & PAU	SLOK CR	250	02J	01	03B	225.000	B

WATER LICENCES

Lic.#	Owner	Source	Location	Precinct	#PRP	PRP	QTY	Units
17582C	WESTBANK IRRIGATION DISTR	LAMBLY CR	8500	30D	01	03A	1305.000	B
17607C	CUNNINGHAM WILLIAM W & DA	EIGHTYTHREE CR	92P/5E-6W	02B	01	03B	380.000	B
17693C	DIAMOND S RANCH LTD	PAVILION CR	251	02J	01	03B	1850.000	B
17695C	DIAMOND S RANCH LTD	PAVILION CR	251	02J	01	03B	400.000	B
17699C	DIAMOND S RANCH LTD	PAVILION CR	251	02J	01	03B	1050.000	B
17702C	DIAMOND S RANCH LTD	PAVILION CR	251	02J	01	03B	525.000	B
17735C	NARAMATA IRRIGATION DISTR	ROBINSON CR	1560A	07B	01	03A	3000.000	B
17737C	NARAMATA IRRIGATION DISTR	ARAWANA CR	1560A	07B	01	03A	670.000	B
17738C	NARAMATA IRRIGATION DISTR	NARAMATA CR	1560A	07B	01	03A	3000.000	B
17739C	NARAMATA IRRIGATION DISTR	CHUTE CR	1560	07B	01	03A	3000.000	B
17746C	LADYSMITH TOWN OF	HOLLAND CR	4801	17A	01	00A	600000.000	D
17786C	ENDERBY CITY OF	SHUSWAP R	8524	30G	01	00A	200000.000	D
17839C	VERNON IRRIGATION DISTRIC	PARADISE ETC CRS	82L/2W	30	01	03A	9000.000	B
17846C	VERNON IRRIGATION DISTRIC	DEER CR	8469D	30C	01	03A	3000.000	B
17853C	PEACHLAND IRRIGATION DIST	PEACHLAND CR	8495	30D	01	03A	1214.000	B
17855C	PEACHLAND IRRIGATION DIST	PEACHLAND CR	8495	30D	01	03A	800.000	B
18075C	B C TIMBER LTD	TAYLOR LK & PRUDHOMME LK	6702	25C	01	02A	80.000	G
18124C	PRINCETON TOWN OF	TULAMEEN R	6964	23C	01	00A	2100000.000	D
18134C	OSOYOOS TOWN OF	VILLAGE SPR	82.E.003.3.2	07A	01	00A	100000.000	D
18331C	KAMLOOPS CITY OF	S THOMPSON R	3750	13F	01	03A	321.000	B
18331C				13F	02	01A	20000.000	D
18397C	WILLIAMS LAKE CITY OF	WILLIAMS LK	93.B.020.1.2.4	05E	01	00A	100000.000	D
18480C	INDIAN AFFAIRS BRANCH	MAMEET SPR	92.I.016.2.4	21A	01	03B	250.000	B
18512C	IDEAL CEMENT CO (B C) LTD	EMILY LK	92.F.078.1.4	29G	01	05C	100000.000	D
18611C	INDIAN AFFAIRS BRANCH	OKANAGAN LK	8586	30F	01	03B	900.000	B
18659C	VERNON CITY OF	DIXON CR	82L/6E(B)	30F	01	00A	600000.000	D
18726C	SALMON ARM DISTRICT OF	SHUSWAP LK	3722A	13E	01	00A	250000.000	D
18765C	SALMON ARM DISTRICT OF	E CANOE CR	82L/11E(G)	13E	01	00A	539000.000	D
18817C	PARKSVILLE TOWN OF	PARKSVILLE SPR #1 2 & 3	4809E	17A	01	00A	275000.000	D
18903C	PORT ALBERNI CITY OF	CHINA CR	21	01A	01	00A	5385000.000	D
19009C	NORTH COWICHAN DISTRICT O	CROFTON LK	8708B	31A	01	00A	100000.000	D
19087C	OSOYOOS IRRIGATION DISTRI	OSOYOOS LK	82.E.003.2.2	07A	01	03A	440.000	B
19098C	KELOWNA CITY OF	OKANAGAN LK	8420A	30A	01	00A	1000000.000	D
19099C	RITCHIE WILLIAM A & M GLE	COE & MCMYNN SLOUGH	6933E	23B	01	03B	300.000	B
19397C	TRAIL CITY OF	COLUMBIA R	5278A	18K	01	00A	1000000.000	D
19430C	ARMSTRONG CITY OF	FORTUNE CR	8521	30G	01	00A	500000.000	D
19438C	KIMBERLEY CITY OF	LOCKSPRING CR	1341	06G	01	00A	100000.000	D
19468C	NICOLA RANCH LTD	NICOLA R	92.I.017.4.1	21A	01	03B	1300.000	B
19538C	CUMBERLAND VILLAGE OF	PERSEVERANCE CR	92F/10 & 11E	17C	01	00A	500000.000	D
19569C	NORTH VANCOUVER CITY OF	LYNN CR	8100	29E	01	00A	4092000.000	D
19596C	EDGEWATER IMPROVEMENT DIS	MACAULAY CR	2951A	10H	01	00A	100000.000	D
19680C	PENTICTON CITY OF	OKANAGAN LK	1550	07B	01	00A	2500000.000	D
19777C	WESTBANK IRRIGATION DISTR	WESTBANK SPR	8492F	30D	01	00A	100000.000	D
19843C	CLARK JOHN M	PERRY CR	1344	06G	01	03B	200.000	B
19923C	LANDEX RESOURCES LTD	SIMILKAMEEN R	6933	23B	01	03B	200.000	B
19935C	GIBSONS TOWN OF	CO-OP SPRS	92.G.043.1.2	29C	01	00A	120000.000	D
19949C	OSOYOOS IRRIGATION DISTRI	OSOYOOS LK	82.E.003.2.2	07A	01	03A	753.000	B
19971C	BAROID OF CANADA LTD	SPILLIMACHEEN R	2823	10F	01	05C	100000.000	D
19988C	BOUNDARY LINE IRRIGATION	OSOYOOS LK	82.E.003.2.2	07A	01	03A	368.000	B
20067C	AGRICULTURE CANADA-RESEAR	THOMPSON R	3810	13H	01	03B	240.000	B
20067C				13H	02	01A	3000.000	D
20098C	CEDAR VALLEY DAIRY LTD	EQUESIS CR	8587	30F	01	03B	250.000	B
20112C	KAMLOOPS GOLF & COUNTRY C	THOMPSON R	3810	13H	01	03B	390.000	B
20209C	PEDERSEN BRIAN L	OUELLETTE CR & S FORK CR	3122	11E	01	03B	200.000	B
20209C				11E	02	01A	1000.000	D
20210C	REVELSTOKE CITY OF	NAPOLEON CR	7655	27E	01	00A	200000.000	D
20260C	HALLMARK RESOURCES LTD	CRONIN CR	93L15	12C	01	05C	100000.000	D
20260C				12C	02	01A	2000.000	D
20348C	MCBRIDE VILLAGE OF	DOMINION CR	93.H.030	24B	01	00A	100000.000	D
20470C	SOUTH EAST KELOWNA IRRIGA	HYDRAULIC CR	8406	30A	01	00A	100000.000	D

WATER LICENCES

Lic.#	Owner	Source	Location	Precinct	#PRP	PRP	QTY	Units
20477C	KIMBERLEY CITY OF	ST MARY R	1341	066	01	00A	200000.000	D
20501C	LILLOOET VILLAGE OF	TOWN CR	102A	02D	01	00A	200000.000	D
20604C	QUESNEL CITY OF	QUESNEL R	7200A	26B	01	00A	200000.000	D
20626C	PEACHLAND MUNICIPALITY OF	TREPANIER CR	8495C	30D	01	00A	1076908.000	D
20639C	KAMLOOPS CITY OF	S THOMPSON R	3750A	13F	01	00A	3000000.000	D
20665C	INDIAN AFFAIRS BRANCH	ANAHIM CR	93.B.014	05A	01	03B	600.000	B
20715C	HUBNERS DAIRY FARMS LTD	FLOYD SWAMP	8593	30G	01	03B	300.000	B
20727C	GARDNER RANCH LIMITED	QUENVILLE CR	6010	21A	01	03B	300.000	B
20756C	CHILLIWACK DISTRICT OF	HOPE SLOUGH & ELK CR	92H/4-EF	20C	01	03A	1000.000	B
20891C	INDIAN AGENCY-WESTBANK BA	MCDOUGALL CR	8492	30D	01	03B	780.000	B
20893C	REYNOLDS HARRY D & CATHER	S FRENCH BAR & RODERICK	92O/SE	02J	01	03B	210.000	B
21145C	WILMER WATERWORKS DISTRIC	BRUCE CR	2953A	10H	01	03A	500.000	B
21314C	GIBSONS TOWN OF	CHASTER CR	92.G.043.1.4	29C	01	00A	200000.000	D
21405C	KIMBERLEY CITY OF	MARK CR	1343	066	01	00A	120000.000	D
21423C	SOUTH VERNON IRRIGATION D	VERNON CR	8582G	30F	01	03A	240.000	B
21700C	GRAND FORKS CITY OF	GRANBY R	3031B	11B	01	00A	500000.000	D
21721C	PRINCE GEORGE CITY OF	NECHAKO R	93.G.097	24E	01	00A	2230000.000	D
21822C	ONE WAY ADVENTURE FOUNDAT	HEDLEY CR	6903	23A	01	05C	150000.000	D
21843C	CHILLIWACK DISTRICT OF	LIUMCHEN CR	5732C-1	20C	01	00A	100000.000	D
21894C	NELSON CITY OF	SELOUS CR	82F6W	18H	01	00A	1000000.000	D
21984C	CAMP BUSK SOCIETY	APEX CR & CLEARWATER CR	82F/6E	18P	01	02E	1000000.000	D
22012C	MASCOT GOLD MINES LIMITED	STULKAWHITS CR	92H/6-E.F	20K	01	05C	600000.000	D
22026C	LIMMER LUDWIG	SHUSWAP R	8436	30	01	03B	300.000	B
22039C	ALUMINUM CO OF CANADA	MOORE CR	103.I.007	25A	01	00	1000000.000	D
22084C	HAWKE JESSE W & RUTH A	NORBURY CR	1801	08A	01	03B	200.000	B
22099C	GIBB STANLEY	FORSTER CR	2952	10H	01	03B	250.000	B
22156C	NORTH CAMPBELL RIVER WATE	CAMPBELL R	92K/3-C	17C	01	00A	200000.000	D
22173C	LOWREY IAN A	TIMOTHY CR	92P/14-W	05E	01	03B	240.000	B
22235C	COLDSTREAM DISTRICT OF	KALAMALKA LK	8469B	30C	01	00A	100000.000	D
22272C	GREATER NANAIMO WATER DIS	S NANAIMO R	92F/1(A)	17A	01	00A	9500000.000	D
22362C	KELOWNA CITY OF	OKANAGAN LK	8423B	30A	01	00A	6000000.000	D
22392C	GILLESPIE ROSS G	PROUTON CR	1167	05D	01	03B	240.000	B
22392C				05D	02	01A	1000.000	D
22455C	MULVAHILL RANDOLPH F	CLINCHINTAMPAN/COPELAND B	93B/SW	05A	01	03B	400.000	B
22456C	MULVAHILL RANDOLPH F	MAXWELL CR	93B/SW(5-E)	26A	01	03B	200.000	B
22463C	NORTH COWICHAN DISTRICT O	BANON CR	8718A	31A	01	00A	1500000.000	D
22466C	NUYENS KENNETH E	OKANAGAN LK	82.L.003.4.3	30C	01	03B	250.000	B
22504C	ASHCROFT RANCH	MEDICINE CR	92I/14W(D)	02B	01	03B	750.000	B
22517C	TERRACE DISTRICT OF	DEEP CR & SPRING CR	103.I.058	25C	01	00A	500000.000	D
22585C	GREATER NANAIMO WATER DIS	CHASE R	4804D	17A	01	00A	500000.000	D
22606C	SALMON GERALD G	CHARLESON CR	93G/2W	26A	01	02E	1500.000	B
22672C	HIDDEN BAR RANCH LTD	CHUTE CR	1560	07B	01	03B	225.000	B
22720C	NORTH COWICHAN DISTRICT O	HOLYOAK LK	8718A	31A	01	00A	2000000.000	D
22757C	DUNCAN CITY OF	COWICHAN R	8707A	31A	01	00A	1980000.000	D
22864C	B C FOREST PRODUCTS LTD	COWICHAN R	8707A	31A	01	02A	100.000	Q
22889C	PARK & TILFORD CANADA INC	DISTILLERY WELLS	8100	29E	01	02C	1440000.000	D
23000C	NORTH COWICHAN DISTRICT O	CROFTON LK	8708B	31A	01	00A	100000.000	D
23069C	BLACK MOUNTAIN IRRIGATION	MISSION CR	8406	30A	01	00A	400000.000	D
23086C	MACMILLAN BLOEDEL LTD-ALP	SPROAT LK	92F/SEW	01A	01	02A	75.000	Q
23088C	GREATER CAMPBELL RIVER WA	CAMPBELL R	92K/3-C	17C	01	00A	334247.000	D
23114C	CAPITAL REGIONAL DISTRICT	BRENTWOOD SPRS	8793B	31B	01	00A	300000.000	D
23127C	IDEAL CEMENT CO B C LTD	PAXTON LKS	92.F.078.1.2	29G	01	05C	700000.000	D
23168C	MACMILLAN BLOEDEL LTD-ALP	GREAT CENTRAL LK	0023	01A	01	02I	80000.000	B
23280C	NATIONAL DEFENCE DEPT OF	ENOS LK	4809D	17A	01	00	200000.000	D
23319C	INDIAN AFFAIRS BRANCH	EQUESIS CR	8591	30F	01	03B	492.000	B
23366C	HOFFMAN CYRILLE C & JOANN	COPPERKETTLE CR	3134	11E	01	03B	200.000	B
23366C				11E	02	01A	2000.000	D
23487C	SALTAIR WATERWORKS DISTRI	STOCKING LK	4800	17A	01	00A	270000.000	D
23506C	NARAMATA IRRIGATION DISTR	NARAMATA CR & ROBINSON CR	1560A	07B	01	00A	100000.000	D
23543C	KAMLOOPS CITY OF	N THOMPSON R	3810	13H	01	00A	1000000.000	D

WATER LICENCES

Lic.#	Owner	Source	Location	Precinct	#PRP	PRP	QTY	Units
23564C	GREENWOOD CITY OF	BOUNDARY CR	3062B	11C	01	00A	300000.000	D
23641C	QUESNEL CITY OF	BAKER CR	93.B.098	26A	01	00A	1000000.000	D
23793C	COMINCO LTD	COLUMBIA R	5278A	18K	01	02B	10000000.000	D
23915C	INDIAN AFFAIRS BRANCH	SHATFORD CR	1554	07B	01	03B	450.000	B
24035C	POWELL RIVER DISTRICT OF	HASLAM LK	8250	29D	01	00A	13462000.000	D
24066C	CHERRY CREEK WATERWORKS D	COLD CR	92.F.027.3.3	01A	01	00A	300000.000	D
24068C	SPENCES BRIDGE WATERWORKS	MURRAY CR	348	02C	01	00A	100000.000	D
24078C	NARAMATA IRRIGATION DISTR	CHUTE CR	1560A	07B	01	00A	100000.000	D
24081C	RIVER RANCH CO LTD	SWANSON CR	93.F.077	24E	01	03B	250.000	B
24081C				24E	02	01A	1000.000	D
24163C	FLETCHER RAYMOND ORVILLE	KNIFE CR	1124	05E	01	03B	400.000	B
24165C	SAN JOSE CATTLE CO LTD	KNIFE CR	1127	05E	01	03B	900.000	B
24167C	HINSCHE CLIFFORD	KNIFE CR	1139	05E	01	03B	400.000	B
24204C	FERNIE CITY OF	FAIRY CR	1834	08B	01	00A	100000.000	D
24329C	SALMON ARM DISTRICT OF	WHITE CLIFF GULCH	3725A	13E	01	00A	100000.000	D
24421C	LYTTON VILLAGE OF	LYTTON CR	92I.023.1.3	02I	01	00A	300000.000	D
24490C	NORTH CAMPBELL RIVER WATE	CAMPBELL R	92K/3-C	17C	01	00A	200000.000	D
24499C	MULVAHILL WILLIAM W	ROSS CR	93B/SW	26A	01	03B	300.000	B
24544C	B C HYDRO & POWER AUTH	FRASER R	5762F	20D	01	02C	36000000.000	D
24551C	LILLOOET VILLAGE OF	DICKEY CR	105	02D	01	00A	200000.000	D
24606C	ASHCROFT RANCH	CORNWALL CR	92I/14W(D)	02E	01	03B	215.000	B
24826C	CRESTON TOWN OF	ARROW CR	5177D	18E	01	00A	1077000.000	D
24842C	WILLIAMS LAKE CITY OF	WILLIAMS LK	93.B.020.1.2.4	05E	01	00A	250000.000	D
25009C	SEWERS PERCY	BURRELL CR	3037	11B	01	03B	300.000	B
25019C	BOLTON BRUCE N & ELEANOR	EQUESIS CR	8587	30F	01	03B	375.000	B
25098C	SCHMIDT EUGENE	LOON CR	92P/3E	02B	01	03B	500.000	B
25148C	TAYLOR VILLAGE OF	PEACE R	94.A.017	22A	01	00A	100000.000	D
25176C	VINSULLA IRRIGATION DISTR	MARTIN MEADOW CR ETC	3630	13B	01	03A	300.000	B
25234C	PENTICTON CITY OF	ELLIS CR	1550	07B	01	00A	1715750.000	D
25236C	PENTICTON CITY OF	OKANAGAN LK	1550	07B	01	00A	2000000.000	D
25311C	MERRITT TOWN OF	COLDWATER R	6052C	21B	01	00A	1000000.000	D
25338C	PARKS BRANCH	SCOTT-GOLDIE CR	8100D	29E	01	00	135000.000	D
25342C	FORT ST JOHN CITY OF	CHARLIE LK	94.A.026	22B	01	00A	100000.000	D
25343C	FORT ST JOHN CITY OF	CHARLIE LK	94.A.026	22B	01	00A	150000.000	D
25344C	FORT ST JOHN CITY OF	CHARLIE LK	94.A.026	22B	01	00A	850000.000	D
25408C	KITIMAT DISTRICT OF	KITIMAT R	103.I.007	25A	01	00A	1000000.000	D
25443C	SIMILKAMEEN IMPROVEMENT D	SIMILKAMEEN R	6960	23A	01	03A	1000.000	B
25445C	SIMILKAMEEN IMPROVEMENT D	SIMILKAMEEN R	82E/SW	23A	01	03A	4343.807	B
25492C	PORT ALBERNI CITY OF	SOMASS R	92.F.026.4.3	01A	01	00A	3000000.000	D
25665C	VERNON CITY OF	DUTEAU CR	8430	30	01	00A	297500.000	D
25666C	VERNON CITY OF	KALAMALKA LK	8469A	30C	01	00A	297500.000	D
25674C	LUMBY VILLAGE OF	DUTEAU CR	8438A	30	01	00A	500000.000	D
25731C	COLDSTREAM DISTRICT OF	KALAMALKA LK	8469A	30C	01	00A	127200.000	D
25732C	COLDSTREAM DISTRICT OF	KALAMALKA LK	8469A	30C	01	00A	100000.000	D
25735C	B C TIMBER LTD	COLUMBIA R	5130E	18C	01	02A	62.000	Q
25758C	CHASE VILLAGE OF	S THOMPSON R	3707	13D	01	00A	500000.000	D
25763C	BEAVER CREEK IMPROVEMENT	STAMP R	92.F.036.2.1	01A	01	00A	650000.000	D
25775C	SQUAMISH DISTRICT OF	MASHITER CR & ESTATE SPR	8231	29C	01	00A	150000.000	D
25791C	MCINTYRE LEWIS E & EVELYN	MAGUIRE CR	2012	08H	01	03B	250.000	B
25808C	B C HYDRO & POWER AUTH	BUNTZEN LK	8160	29E	01	02B	885600.000	D
25808C				29E	02	01A	3000.000	D
25808C				29E	03	02I	839400.000	D
25842C	NORTH CEDAR WATERWORKS DI	NANAIMO R	4805A	17A	01	00A	200000.000	D
25845C	TRAVERS CHARLES M & RUTH	COCHIN CR	92N/NE(16-D)	05A	01	03B	300.000	B
25869C	VERNON CITY OF	B X CR	8582E	30F	01	00A	1000000.000	D
25870C	VERNON CITY OF	B X CR	8582E	30F	01	00A	3000000.000	D
25877C	DAWSON CREEK CITY OF	KISKATINAW R	93.P.078	22A	01	00A	2000000.000	D
25887C	GRAMEHR WALTER	FIFTYNINE CR	335	02B	01	03B	225.000	B
25909C	COLDSTREAM DISTRICT OF	DUTEAU CR	8469B	30	01	00A	100400.000	D
25943C	RANGE BRANCH	DAGG CR	93C/SW	05A	01	03B	555.000	B

WATER LICENCES

Lic.#	Owner	Source	Location	Precinct	#PRP	PRP	QTY	Units
25987C	KAMLOOPS CITY OF	N THOMPSON R	3812	13H	01	00A	250000.000	D
25988C	KAMLOOPS CITY OF	N THOMPSON R	3812	13H	01	03A	1500.000	B
25989C	KAMLOOPS CITY OF	THOMPSON R	3810	13H	01	00A	500000.000	D
25990C	KAMLOOPS CITY OF	THOMPSON R	3810	13H	01	03A	3150.000	B
26096C	FORT NELSON VILLAGE OF	MUSKWA R	94.J.087	15	01	00A	500000.000	D
26211C	SPENCES BRIDGE WATERWORKS	MURRAY CR	348	02C	01	00A	100000.000	D
26215C	CRAIGMONT MINES LTD	NICOLA R	92.I.016.2.3	21A	01	05C	1300000.000	D
26253C	FROLEK CATTLE CO LTD	STUMPLAKE CR	6151	21D	01	03B	250.000	B
26327C	TREICHLER ARNOLD H	MCGREGOR LK	5151	18D	01	02E	100000.000	D
26338C	LABOUNTY CLARENCE H & ISA	GWENIE LK	92P/11E-B	02B	01	03B	400.000	B
26364C	REVELSTOKE CITY OF	CLACHNACUDAINN CR	82N/SW(4-D)	27D	01	00A	1000000.000	D
26570C	CIP INC	GOLD R	92E/NE	01A	01	02A	80.000	B
26618C	INDIAN AFFAIRS BRANCH	SIMILKAMEEN R	6931B	23B	01	03B	400.000	B
26633C	B C TIMBER LTD	RAINBOW LK	6701	25C	01	02A	45.000	B
26635C	BISHOP AGGREGATES LIMITED	BISHOP CR	8100	29E	01	02B	160000.000	D
26635C				29E	02	01A	5000.000	D
26657C	BOWGLEN ESTATES LTD	THOMPSON R	389	02F	01	03B	300.000	B
26692C	PARKSVILLE TOWN OF	ENGLISHMAN R	4809	17A	01	00A	400000.000	D
26704C	BLACKIE DOUGLAS A	SIMILKAMEEN R	6902	23A	01	03B	360.000	B
26704C				23A	02	01A	1000.000	D
26806C	DICKENSON MINES LTD - SIL	TRIBUTARY CR	5452	18I	01	05C	150000.000	D
26806C				18I	02	01A	1000.000	D
26813C	INDIAN AFFAIRS BRANCH	CHILANKO R	93B/SW	05A	01	03B	1000.000	B
26868C	NARAMATA IRRIGATION DISTR	OKANAGAN LK	1560A	07B	01	00A	500000.000	D
26869C	INDIAN AFFAIRS BRANCH	OKANAGAN LK	1550A	07B	01	00	100000.000	D
26869C				07B	02	03B	75.000	B
26870C	INDIAN AFFAIRS BRANCH	SOLITAIRE LK	82.E.023.1.2	07A	01	03B	200.000	B
26910C	ROSSLAND CITY OF	W LITTLE SHEEP CR	82.F.001.4.4	18K	01	00A	150000.000	D
26964C	REGIONAL OPERATIONS	SIMILKAMEEN R	92H/7E(A)	23C	01	02I	21880000.000	D
27027C	CAPITAL REGIONAL DISTRICT	QUARRY LK	8793C	31B	01	00A	200000.000	D
27051C	HULTGREN GORDON	THYNNE CR	6991	23D	01	03B	600.000	B
27086C	HARDIE RACHEL K	THOMPSON R	3755A	13F	01	03B	300.000	B
27111C	CROWN FOREST INDUSTRIES L	CAMPBELL R	92.K.004.2.3	17C	01	02A	65.000	B
27158C	KELOWNA CITY OF	OKANAGAN LK	8423B	30A	01	00A	3000000.000	D
27160C	CHETWYND DISTRICT OF	PINE R	93.P.062	22A	01	00A	150000.000	D
27209C	KAUFMAN ELWOOD A & MARGIE	MCLEESE CR	115B	05D	01	03B	300.000	B
27216C	PORT ALBERNI CITY OF	MCFARLAND CR	21	01A	01	00A	2154000.000	D
27235C	ALERT BAY VILLAGE OF	WILLOW CR	92L/10W(D)	17B	01	00A	250000.000	D
27280C	KAMENKA CHARLES GREGORY	STUART CR	102	02D	01	03B	600.000	B
27280C				02D	02	01A	2000.000	D
27330C	SOUTH PENDER HARBOUR WATE	HASLAM CR	92.F.060.4.4	29D	01	00A	200000.000	D
27395C	N T RANCH LTD	WILSON CR	92P/SE	02B	01	03B	200.000	B
27401C	118 HOLDINGS LTD	NEIL CR	92.P.083.2	05E	01	03B	200.000	B
27588C	CULTUS LAKE PARK BOARD	CULTUS LK	5732B	20C	01	00A	300000.000	D
27594C	FLAIG DAVID F	KOOTENAY R	1223	06B	01	03B	200.000	B
27594C				06B	02	01A	1000.000	D
27690C	REICHHOLD CHEMICALS LTD	SCHOOL HOUSE BR	8282	29F	01	02B	300000.000	D
27725C	KAMLOOPS CITY OF	N THOMPSON R	3810	13H	01	00A	5000000.000	D
27746C	UNION BAY WATERWORKS DIST	HART CR	92.F.056.4.3	17C	01	00A	539000.000	D
27766C	EAST KOOTENAY REGIONAL DI	WINDERMERE LK	2962B	10H	01	00A	100000.000	D
27821C	COMINCO LTD	NO LOON LK & ONE LOON LK	92I/10W(D)	21A	01	05C	1250000.000	D
27920C	STOYANOWSKI DONAVON R	GOLD CR	82.G.023	06C	01	03B	200.000	B
27942C	WALTERS GILBERT G	MOFFAT CR	93A/6W(D)	05D	01	03B	200.000	B
27942C				05D	02	01A	1000.000	D
27947C	MILL BAY WATERWORKS DISTR	SHAWNIGAN CR	8750K	31C	01	00A	250000.000	D
27953C	CANADA CEMENT LAFARGE LTD	FRASER R	92G/3-GH	20F	01	02B	1200000.000	D
27953C				20F	02	02I	100000.000	D
27976C	HUDSONS HOPE DISTRICT OF	PEACE R	94.A.001	24C	01	00A	200000.000	D
27977C	TERRACE DISTRICT OF	DEEP CR & SPRING CR	103.I.05B	25C	01	00A	5000000.000	D
27988C	ASHCROFT VILLAGE OF	THOMPSON R	304	02A	01	00A	400000.000	D

WATER LICENCES

Lic.#	Owner	Source	Location	Precinct	#PRP	PRP	QTY	Units
27993C	KAMLOOPS CITY OF	S THOMPSON R	3750	13F	01	00A	500000.000	D
28077C	DUNCAN CITY OF	COWICHAN R	8707A	31A	01	00A	1000000.000	D
28146C	C 1 RANCH LTD	CHILCOTIN R	1080	05A	01	03B	760.000	B
28161C	NEWBERRY CATTLE CO LTD	CORKSCREW CR	93C/NW	05A	01	03B	200.000	B
28169C	INDIAN AFFAIRS BRANCH	GITZYON CR	103.P.025	25C	01	00	100000.000	D
28195C	DE BOER JOHN & SHARON	BIG CR	92.0.076	05A	01	03B	5000.000	B
28216C	PETERSON ALLEN T	GILLIS CR	6061	21B	01	03B	312.500	B
28281C	ROBERTSON STANLEY I & CHR	CHILANKO R	93C/SE	05A	01	03B	200.000	B
28281C				05A	02	01A	1000.000	D
28292C	LEHMAN WILLIAM	BRYANT CR	93C/NW	05A	01	03B	200.000	B
28292C				05A	02	01A	2000.000	D
28295C	DONAHUE EARL G & DALE	WAITE CR/GENE/MOONEY BR	93C/NW	05A	01	03B	200.000	B
28295C				05A	02	01A	2000.000	D
28313C	BULKLEY-NECHAKO REGIONAL	NECHAKO R	93.K.008	24E	01	00A	100000.000	D
28323C	ZEHNDER FRITZ/VRENI	KREUTER CK & BOKER BRK	2960	10H	01	03B	250.000	B
28412C	SLOCAN VILLAGE OF	SPRINGER CR	5551C	19M	01	00A	100000.000	D
28480C	GEERNAERT BEVAN O	CLEAR CR	93.K.010	24E	01	03B	300.000	B
28496C	LILLOOET VILLAGE OF	TYEE JIMMIE CR	92.J.080	02D	01	00A	200000.000	D
28541C	AGRICULTURE CANADA-RESEAR	OKANAGAN LK	1600A	07C	01	03B	470.000	B
28541C				07C	02	01A	25000.000	D
28589C	SALANSKI LITA	SCHERF CR	82.G.005	08H	01	03B	375.000	B
28589C				08H	02	01A	1500.000	D
28706C	INDIAN AGENCY-MOUNT CURRI	GOLD CR	92J/7E(B)	20H	01	00	100000.000	D
28788C	NANAIMO REGIONAL DISTRICT	ENOS LK	4809D	17A	01	00A	100000.000	D
28824C	KLINGER EMIL L & LEONARD	OKANAGAN LK	82.L.024.1.3	30F	01	03B	600.000	B
28824C				30F	02	01A	500.000	D
28855C	HERDE KARL	PHILILLOO LK	92P/13E(B)	05E	01	03B	325.000	B
28897C	PRINCE GEORGE PULP & PAPE	NECHAKO R	93.G.097	24E	01	02A	62.300	Q
28898C	VALEMOUNT VILLAGE OF	SWIFT CR	83D/NW	24B	01	00A	240000.000	D
28936C	HEICHMAN CLINTON L	MCKAY CR	252	02J	01	03B	525.000	B
28955C	KENNEDY DONALD R & JOAN L	BOTTLE CR	1162	05D	01	03B	250.000	B
28961C	DEWEY FLOYD D & PEGGY A	MUENCH CR	92P/13E(B)	05E	01	03B	200.000	B
28961C				05E	02	01A	2000.000	D
28974C	DEWDNEY-ALOUETTE REGIONAL	NORRISH CR	5850	20H	01	00A	2500000.000	D
29007C	SICAMOUS WATERWORKS DISTR	MARA LK	3860A	13K	01	00A	300000.000	D
29032C	WEYERHAEUSER CANADA LTD	THOMPSON R	3752B	13F	01	02A	90.000	Q
29101C	TEXACO CANADA RESOURCES L	PEACE R	94.A.020	22A	01	02I	1050000.000	D
29133C	SPRINGFIELD CATTLE CO LTD	HAWKS CR	1157	05D	01	03B	615.000	B
29156C	LEADER ERNEST H & MURIEL	SHUSWAP R	8524A	30G	01	03B	200.000	B
29188C	PA-VAN RANCH LTD	LYNCH CR	3034	11B	01	03B	400.000	B
29241C	SPRINGFIELD CATTLE CO INC	WHISKEY CR	1156	05D	01	03B	300.000	B
29275C	VERNON CITY OF	B X CR	8582G	30F	01	02I	309.000	B
29359C	KAMLOOPS CITY OF	N THOMPSON R	3812	13H	01	03A	240.000	B
29362C	TRANSPORT MINISTRY OF	THOMPSON R	3810	13H	01	02B	330.000	B
29416C	ENDERBY CITY OF	SIDDLE CR & JIROD CR	82L/10W(D)	30G	01	00A	300000.000	D
29426C	FORT ST JOHN CITY OF	CHARLIE LK	94.A.026	22B	01	00A	500000.000	D
29462C	SMITH JOHN R & VIRGINIA L	NIMPO CR	93C/SW	05A	01	03B	205.000	B
29533C	SAGER BRUCE	CHRISTENSEN CR	93C/NW	05A	01	03B	500.000	B
29536C	CATRE INDUSTRIES LTD	PORTER CR	920/NE(16-6)	05C	01	03B	660.000	B
29562C	STRATA CORPORATION K-577	OKANAGAW LK	8420A	30A	01	02C	300000.000	D
29571C	VERNON CITY OF	B X CR	8582G	30F	01	02I	309.000	B
29585C	PORT HARDY DISTRICT OF	TSULQUATE R	92L/12E	17B	01	00A	200000.000	D
29655C	B C TIMBER LTD	KLOIYA R	6702	25C	01	02A	35.000	Q
29675C	R DEVICK & SONS CATTLE CO	N THOMPSON R	3814A	13H	01	03B	300.000	B
29729C	MAYER ROGER M & DONNA M	DALY SLOUGH	6933C	23B	01	03B	220.000	B
29791C	THOMSON RAY & MARY ELIZAB	BIG CR	1086	05A	01	03B	200.000	B
29836C	PEMBERTON NORTH IMPROVEME	PEMBERTON CR	92J/7W(C)	20H	01	00A	100000.000	D
29859C	MEADOW VALLEY IRRIGATION	FINLAY CR & LAPSLEY CR	1605	07C	01	03A	498.500	B
29898C	NEWBERRY CATTLE CO LTD	CORKSCREW CR	93C/NW	05A	01	03B	400.000	B
29910C	CHRISTINA LAKE GOLF & COU	KETTLE R	3000	11A	01	03B	227.500	B

WATER LICENCES

Lic.#	Owner	Source	Location	Precinct	#PRP	PRP	QTY	Units
29955C	DAVID MARTENS & SONS LTD	FEETZEL CR & E CLEAR CR	93.K.010	24E	01	03B	400.000	B
30028C	NEWBERRY CATTLE CO LTD	CORKSCREW CR	93C/NW	05A	01	03B	320.000	B
30063C	MACLAREN FOREST PRODUCTS	HENDRIX LK	93A/SE	05B	01	05C	1300000.000	D
30078C	FORSEILLE EMILE J & RENE	COLLINS CR	1152	05D	01	03B	300.000	B
30100C	JIMEVA FARMS LTD	S THOMPSON R	3750	13D	01	03B	422.700	B
30131C	OSOYOOS VINEYARDS LTD	OSOYOOS LK	82.E.003.4.1	07A	01	03B	640.000	B
30265C	GRAND FORKS IRRIGATION DI	KETTLE R	3031	11B	01	03A	560.000	B
30271C	NORTHWOOD PULP AND TIMBER	FRASER R	93.G.097	24E	01	02A	140.000	Q
30279C	RIDDELL DORIS M	SUPPLY CR	8266W	08F	01	03B	293.000	B
30286C	WOODBURN DOUGLAS ALFRED	BONAPARTE R	328	02B	01	03B	300.000	B
30396C	TERMUENDE ROBERT W & ORMA	WILD HORSE R	1890	08D	01	03B	300.000	B
30399C	FORT STEELE HISTORIC PARK	WILD HORSE R	1890	08D	01	00	200000.000	D
30399C				08D	02	03B	100.000	B
30401C	MAD G RANCH 1980 LTD	N THOMPSON R	3638B	13B	01	03B	250.000	B
30463C	GLEN MARGUERITE C	FIFTYSEVEN CR	335	02B	01	03B	250.000	B
30540C	PRINCE GEORGE CITY OF	NECHAKO R	93.G.097	24E	01	00A	450000.000	D
30565C	NORTHCO PROPERTIES LTD	DAYTON CR	5551C	18M	01	05C	100000.000	D
30673C	POOLEY WILFRED J & LENORE	HECTOR CR	92I/2-E(G)	21A	01	03B	217.500	B
30673C				21A	02	01A	500.000	D
30682C	JACOBSON JOHN & ALFRED	JACOBIE CR	93A/NW(12-D)	05D	01	03B	600.000	B
30690C	HORSE SHOE BAR FEED & LIV	SKOOKUMCHUCK CR	82.G.092	06F	01	03B	330.000	B
30726C	MACMILLAN BLOEDEL LTD-POW	POWELL R	92F/NE	29D	01	02A	45.000	Q
30750C	MERRITT TOWN OF	COLDWATER R	6052C	21B	01	00A	463100.000	D
30751C	MERRITT TOWN OF	COLDWATER R	6052C	21B	01	00A	463100.000	D
30788C	CUTHBERTSON BRUCE R & PAT	KETTLE R	3092	11D	01	03B	650.000	B
30788C				11D	02	01A	500.000	D
30882C	NITSCH JOE	SIMILKAMEEN R	6931	23B	01	03B	200.000	B
30882C				23B	02	01A	500.000	D
30898C	M & V LOGGING CO LTD	GOLD CR ETC	82.G.023	06C	01	03B	500.000	B
30908C	CROWN FOREST INDUSTRIES L	CAMPBELL R	92.K.004.2.3	17C	01	02A	35.000	Q
30916C	INDIAN AGENCY-DESOLATION	SLIAMMON LK	92F/NE	29D	01	00	100000.000	D
30917C	WEST VANCOUVER DISTRICT O	MONTIZAMBERT CR	92.G.044.2.2	29E	01	00A	100000.000	D
30928C	ROSSLAND CITY OF	ELGOOD CR	82.F.001.4.4	18K	01	00A	200000.000	D
30936C	COLUMBIA READY-MIX LTD	PEATT SWAMP	92.B.043.1.4	31B	01	02B	100000.000	D
31007C	KALEDEN IRRIGATION DISTRI	SKAHA LK	82.E.033.3.3	07B	01	00A	250000.000	D
31007C				07B	02	03A	2000.000	B
31012C	PROVINCIAL AGRICULTURAL L	SUNKEN CR	1802	08A	01	03B	500.000	B
31025C	WALHACHIN RANCHES INC	THOMPSON R	305	02A	01	03B	900.000	B
31066C	ASHCROFT RANCH	HAT CR	326	02B	01	03B	240.000	B
31074C	ONWARD CATTLE CO LTD	JONES CR	1122	05E	01	03B	600.000	B
31089C	CENTRAL NATIVE FISHERMENS	BISHOP LK	103A/SE	05F	01	02B	100000.000	D
31091C	INVERMERE DISTRICT OF	GOLDIE CR	2962	10H	01	00A	1500000.000	D
31155C	WILLIAMS LAKE CITY OF	WILLIAMS LK	93.B.020.1.2.4	05E	01	00A	3500000.000	D
31187C	NICOLA VALLEY INDIAN SERV	NICOLA R	6002A	21A	01	03B	250.000	B
31190C	WHISTLER RESORT MUNICIPAL	WHISTLER CR	92.J.006.3.3	29C	01	00A	150000.000	D
31268C	MACKENZIE DISTRICT OF	MORFEE LKS	930035	24C	01	00A	600000.000	D
31312C	SIMILKAMEEN IMPROVEMENT D	SIMILKAMEEN R	6904	23A	01	03A	642.000	B
31376C	YARROW WATERWORKS DISTRIC	VEDDER R	5732A	20C	01	00A	720000.000	D
31387C	PAROLIN JEAN E/G E	SCHUBERT CR	6996	23D	01	03B	200.000	B
31401C	LOZIER JACK & ELLEN S	PICKARD CR	93.B.049	26B	01	03B	480.000	B
31401C				26B	02	01A	1000.000	D
31407C	DIAMOND S RANCH LTD	PAVILION CR & HUGHES SPR	251	02J	01	03B	714.000	B
31408C	ASHCROFT RANCH	OREGON JACK CR	362	02E	01	03B	200.000	B
31440C	KAMLOOPS CITY OF	S THOMPSON R	3750A	13F	01	00A	5000000.000	D
31461C	OCEAN FISHERIES LIMITED	JOHN CR	6701	25C	01	02B	250000.000	D
31462C	OCEAN FISHERIES LIMITED	CASPACO CR	6701	25C	01	02B	250000.000	D
31504C	LECOMTE VINEYARDS	OKANAGAN R	82.E.033.1.1	07A	01	03B	200.000	B
31517C	BRENDA MINES LTD	PEACHLAND CR	8497	30D	01	05C	5800.000	B
31519C	BRENDA MINES LTD	MACDONALD CR	82E/NW	30D	01	05C	2300.000	B
31599C	SATRE OLAF O	HOMATHKO R	92N/NE(16-D)	05A	01	03B	680.000	B

WATER LICENCES

Lic.#	Owner	Source	Location	Precinct	#PRP	PRP	QTY	Units
31600C	SATRE OLAF O	QUAKIE CR	92N/NE(15-A)	05A	01	03B	400.000	B
31664C	PENDERGRAFT THEODORE W	HAYNES CR	1500	07A	01	03B	525.000	B
31742C	SAYWARD VILLAGE OF	NEWCASTLE CR	485B	17B	01	00A	500000.000	D
31754C	INDIAN AFFAIRS BRANCH	S THOMPSON R	3811	13H	01	03B	600.000	B
31783C	INTERCONTINENTAL PULP CO	NECHAKO R	93.G.097	24E	01	02A	100.000	B
31797C	HAGEN ORLANDO M/NEIL O/KE	BONAPARTE R	311	02B	01	03B	750.000	B
31878C	MCKERSIE WALTER G & BETTY	MARTON CR & W MARION CR	2904	10C	01	03B	290.150	B
31878C				10C	02	01A	2000.000	D
31922C	BLACK ELIZABETH A	HILLABY CR	92J/NW	20H	01	03B	300.000	B
31922C				20H	02	01A	1500.000	D
31925C	PERKINS PHILLIP/E M	HILLABY CR	92J/NW	20H	01	03B	300.000	B
31976C	CRESTBROOK FOREST IND LTD	SKOOKUMCHUCK CR	82.G.092	06F	01	02A	65.000	B
32058C	FOUNTAINVIEW FARMS	KIRBY SPR	351	02C	01	03B	210.000	B
32113C	LEIR JAMES H	BROKEN CR	82.E.032.4.4	23A	01	03B	500.000	B
32119C	VERNON IRRIGATION DISTRIC	DUTEAU CR	8430	30B	01	00A	250000.000	D
32119C				30B	02	03A	14831.500	B
32123C	VERNON IRRIGATION DISTRIC	DUTEAU CR	8430	30B	01	00A	250000.000	D
32185C	FALKE DWAIN C & BETTY	MATHER CR	1200	06A	01	03B	330.000	B
32185C				06A	02	01A	500.000	D
32187C	G M RESOURCES LIMITED	ESTELLA SPRING	82.G.072	08I	01	05C	100000.000	D
32251C	QUESNEL CITY OF	QUESNEL R	7200	26B	01	00A	1528000.000	D
32268C	EITZENBERGER JOSEF & MARG	SUPPLY CR	8266W	08F	01	03B	201.000	B
32273C	DUTCH DAIRY HOLDINGS LTD	N THOMPSON R	3822	13H	01	03B	750.000	B
32330C	ELKINK RANCH LTD	TESTALINDEN CR	1502	07A	01	00	250000.000	D
32346C	BEAR CREEK RANCH LTD	HIUIHILL CR	82L/13E	13A	01	03B	800.000	B
32353C	EWALT GENE E & BLAKE L	COLDWATER R	6053	21B	01	03B	400.000	B
32369C	PARR UTILITIES LTD	WINDERMERE LK	2962A	10H	01	00	500000.000	D
32372C	WILDLIFE BRANCH	LIMPID CR	5326	18D	01	03B	200.000	B
32372C				18D	02	01A	1000.000	D
32392C	BARRIERE IMPROVEMENT DIST	BARRIERE R	3637E	13B	01	00A	150000.000	D
32406C	EDGEWATER IMPROVEMENT DIS	MACAULAY CR	2951A	10H	01	00A	100000.000	D
32452C	ELKINS CREEK LODGE LTD	ELKIN CR	92O/SW	05A	01	03B	200.000	B
32453C	EDEN DONALD	LITTLE HORSE LK	92.P.045	02B	01	03B	520.000	B
32460C	BLUE RIVER WATERWORKS DIS	WHITE R	83D/SW(3-C)	13G	01	00A	100000.000	D
32461C	BLUE RIVER WATERWORKS DIS	WHITE R	83D/SW(3-C)	13G	01	00A	100000.000	D
32464C	R F WELCH (B C) LTD	ROSS CR	3843A	13I	01	03B	320.000	B
32470C	DANKOE MINES LTD	SIMILKAMEEN R	6930	23B	01	05C	200000.000	D
32474C	VERNON CITY OF	KALAMALKA LK	8469A	30C	01	00A	600000.000	D
32508C	CONSTRUCTION AGGREGATES L	GONZALES CR	8230	29C	01	02B	500000.000	D
32510C	HUDSONS HOPE DISTRICT OF	VITAL SPR	94.A.001	24C	01	00A	100000.000	D
32511C	HUDSONS HOPE DISTRICT OF	FEDERAL SPR	94.A.001	24C	01	00A	100000.000	D
32512C	HUDSONS HOPE DISTRICT OF	KYLLO SPR	94.A.001	24C	01	00A	100000.000	D
32525C	NORTH SALTSPRING WATERWOR	ST MARY LK	92.B.083.3.4	31C	01	00A	125000.000	D
32528C	KAMLOOPS CITY OF	N THOMPSON R	3810	13H	01	00A	1000000.000	D
32549C	KIMBERLEY CITY OF	EIMER CR	1341	06G	01	00A	300000.000	D
32563C	LOWER NICOLA WATERWORKS D	GUICHON CR	92.I.016.4.1	21A	01	00A	100000.000	D
32576C	CHARD LEWIS A	W KETTLE R	3120	11E	01	03B	250.000	B
32584C	B C HYDRO & POWER AUTH	HEART CR	82.E.090.4.1	18A	01	00	200000.000	D
32598C	TERRACE DISTRICT OF	SKEENA R	6650B	25C	01	00A	1500000.000	D
32615C	SUMMERLAND DISTRICT OF	OKANAGAN LK	1603B	07C	01	00A	1600000.000	D
32632C	CROWN FOREST INDUSTRIES L	OKANAGAN LK	82.E.093.1.2	30A	01	02B	360000.000	D
32633C	CROWN FOREST INDUSTRIES L	OKANAGAN LK	82.E.093.1.2	30A	01	02C	12000000.000	D
32643C	KIMBERLEY CITY OF	LOCKSPRING CR	1341	06G	01	00A	540000.000	D
32700C	DAN-BAR DRILLING COMPANY	WOLF CR	82.G.082	08I	01	03B	451.000	B
32828C	KELOWNA CITY OF	OKANAGAN LK	8420A	30A	01	00A	5000000.000	D
32829C	KELOWNA CITY OF	OKANAGAN LK	8423B	30A	01	00A	9000000.000	D
32872C	INDIAN AFFAIRS BRANCH	COLUMBIA R	2953A	10H	01	02B	137000.000	D
32924C	NEW DENVER VILLAGE OF	MOUNTAIN CHIEF CR	5450	18I	01	00A	200000.000	D
32934C	LUNZMANN LUDWIG M & WINNI	BLUE SPRINGS CR	8438	30B	01	03B	337.500	B
32934C				30B	02	01A	4000.000	D

Lic.#	Owner	Source	Location	Precinct	#PRP	PRP	QTY	Units
32939C				05D	02	01A	1500.000	D
32947C	BRENDA MINES LTD	CRESCENT ETC CRKS	92H/NE	07C	01	05C	3370.000	B
32968C	JACKSON EUGENE F & PATRIC	GILBERT BR	5881	20I	01	02E	200000.000	D
32981C	LOWER NICOLA WATERWORKS D	NICOLA R	92.I.016.2.3	21A	01	00A	100000.000	D
33034C	LAUTARD EDWARD L	W KETTLE R	3121	11E	01	03B	400.000	B
33036C	CHAPUT WALLACE/EDWARD F	FERRY CR	8432	30B	01	03B	200.000	B
33038C	CRESTBROOK FOREST IND LTD	KOOTENAY R	82.G.092	06F	01	02A	10.000	Q
33059C	SHIPS POINT IMPROVEMENT D	WILFRED CR	92.F.046.4.4	17C	01	00A	100000.000	D
33104C	BLUEBERRY CREEK IRRIGATIO	BLUEBERRY CR	5284C	18K	01	00A	350000.000	D
33104C				18K	02	03A	25.000	B
33110C	ENGINEERING BRANCH	VIENNA CR	93.G.077	24D	01	03B	300.000	B
33110C				24D	02	01A	1000.000	D
33174C	TRANSPORT MINISTRY OF	OKANAGAN R	1550D	07B	01	03B	230.000	B
33201C	SOUTH PENDER HARBOUR WATE	HASLAM CR	8257A	29D	01	00A	200000.000	D
33223C	NEWBERRY CATTLE CO LTD	DARCY BR	93C/NW	05A	01	03B	200.000	B
33234C	TRUCK CITY CHILCOTIN	GOERING CR	93B/SW	26A	01	03B	240.000	B
33289C	JORDAN TERRY S	CHARLIE CR	92N/9-E	05A	01	03B	320.000	B
33298C	KAMLOOPS CITY OF	S THOMPSON R	3691	13D	01	00A	125000.000	D
33300C	INDIAN AFFAIRS BRANCH	N THOMPSON R	3811	13H	01	03B	900.000	B
33312C	KAMLOOPS CITY OF	N THOMPSON R	3821	13H	01	03A	1950.000	B
33313C	WESTCOAST TRANSMISSION CO	THOMPSON R	3755A	13F	01	02C	3000000.000	D
33402C	ABEL JOSEPH	SALMON R	3736	13E	01	03B	300.000	B
33402C				13E	02	01A	500.000	D
33403C	PRINGLE CONTRACTING LTD	SALMON R	3736	13E	01	03B	600.000	B
33404C	WESTBANK IRRIGATION DISTR	LAMBLY CR ETC	8500	30D	01	00A	500000.000	D
33404C				30D	02	03A	1425.000	B
33443C	SALMON ARM DISTRICT OF	E CANOE CR	3722C	13E	01	00A	100000.000	D
33449C	ARMSTRONG CITY OF	FORTUNE CR	8521	30G	01	00A	300000.000	D
33464C	KIMPTON FRANCES M	WINDERMERE CR	2962A	10H	01	03B	250.000	B
33478C	KRAUSE BENJAMIN & NELLIE	DUM CR	92P/SE	13C	01	03B	200.000	B
33519C	WHISTLER RESORT MUNICIPAL	WHISTLER CR	92.J.006.3.3	29C	01	00A	100000.000	D
33534C	VERNON CITY OF	KALAMALKA LK	8469A	30C	01	00A	1590681.000	D
33535C	MERIAM CHARLES M/S M	CHERRY CR	82.L.027.2.4	30B	01	03B	320.000	B
33624C	FINLAY FOREST INDUSTRIES	WILLISTON LK	930035	24C	01	02A	25.000	Q
33631C	B C CATTLE CO LTD	INDIAN MEADOWS CR	273	02J	01	03B	300.000	B
33637C	PATENAUDE ELMER J	FIVE MILE CR	1126	05E	01	03B	285.000	B
33643C	COULTHARD WALTER W & JAME	MACKIN CR	93.B.038	05D	01	03B	200.000	B
33670C	MONASHEE CO-OP GROWERS AS	OSOYOOS LK	82.E.003.4.1	07A	01	02C	400000.000	D
33707C	THOMSON MARY	BIG CR	92.O.076	05A	01	03B	200.000	B
33814C	SACKMANS TRAILS END LAND	ANAHIM CR	93.B.014	05A	01	03B	660.000	B
33816C	C 1 RANCH LTD	ANAHIM CR	93.B.014	05A	01	03B	460.000	B
33894C	FORT ST JOHN CITY OF	CHARLIE LK	94.A.026	22B	01	00A	150000.000	D
33895C	FORT ST JOHN CITY OF	CHARLIE LK	94.A.026	22B	01	00A	2250000.000	D
33897C	WOOLLEY JAMES E D	STODDART CR	94.A.026	22B	01	03B	200.000	B
33897C				22B	02	01A	2000.000	D
33914C	DOUGLAS LAKE CATTLE CO	CHAPPERON CR	6158	21D	01	03B	600.000	B
33988C	HERDE KARL	MUENCH CR	1130	05E	01	03B	400.000	B
33992C	CURRIE IAN H	MCLEESE CR	1158	05D	01	03B	375.000	B
34073C	TEGART DENNIS L	BIG BAR CR	259	02J	01	03B	375.000	B
34075C	INDIAN AFFAIRS BRANCH	THOMPSON R	362	02E	01	03B	1800.000	B
34081C	INDIAN AFFAIRS BRANCH	S THOMPSON R	3811	13H	01	03B	420.000	B
34092C	CORNWALL SONIA & HUGH & M	BORLAND CR	1122	05E	01	03B	350.000	B
34159C	WHISTLER RESORT MUNICIPAL	RIDEAU BR	92.J.016.3.2	20H	01	00A	250000.000	D
34257C	MCFADYEN ROBERT A	SIMILKAMEEN R	6930	23B	01	03B	320.000	B
34268C	QUALICUM BAY-HORNE LAKE W	NILE CR	4812C-1	17C	01	00A	100000.000	D
34287C	PUBLIC WORKS DEPT	N THOMPSON R	3814B	13H	01	03B	750.000	B
34307C	GENSTAR CEMENT LTD	SPECTACLE CR	8751K	31C	01	02B	125000.000	D
34312C	NARAMATA IRRIGATION DISTR	OKANAGAN LK	1551D	07B	01	03A	1000.000	B
34377C	HORN CHRIS	BRIDGE CR	92P/11E(B)	05B	01	03B	600.000	B
34440C	JAMES CATTLE CO LTD	TINMUSKET CR	92.O.060	05C	01	03B	300.000	B

WATER LICENCES

Lic.#	Owner	Source	Location	Precinct	#PRP	PRP	QTY	Units
34440C				05C	02	01A	6000.000	D
34441C	INDIAN AFFAIRS BRANCH	TINMUSKET CR	92.0.060	05C	01	03B	288.000	B
34464C	SANDBACK ROBERT E & SHARL	BRIDGE CR	1007	05B	01	03B	200.000	B
34533C	MADISON GEORGE H	MATHER CR	1200	06A	01	03B	225.000	B
34538C	L K RANCHES LTD	GULCH CR	3826	13H	01	03B	600.000	B
34538C				13H	02	01A	4000.000	D
34559C	MERRYFIELD CATTLE COMPANY	THOMPSON R	380	02F	01	03B	300.000	B
34559C				02F	02	01A	500.000	D
34563C	PROVINCIAL AGRICULTURAL L	SUNKEN CR	1802	08A	01	03B	240.000	B
34615C	SALMON ARM DISTRICT OF	WADE CR	3725	13E	01	00A	1000000.000	D
34636C	WINFIELD & OKANAGAN CENTR	VERNON CR	82.L.004.1.2	30C	01	00A	250000.000	D
34636C				30C	02	03A	1053.250	B
34641C	CACHE CREEK VILLAGE OF	BONAPARTE R	328A	02B	01	00A	700000.000	D
34647C	INDIAN AFFAIRS BRANCH	N THOMPSON R	3811	13H	01	03B	2340.000	B
34648C	BREVICK STANLEY	N THOMPSON R	3818	13H	01	03B	462.000	B
34653C	CRESTON TOWN OF	UPPER,LOWER ED.JEAN SPRS	82.F.018.1.4	18E	01	00A	300000.000	D
34696C	GLENMORE IRRIGATION DISTR	KELOWNA CR	82.E.094.3.3	30A	01	00A	260000.000	D
34696C				30A	02	03A	400.000	B
34700C	VERNON IRRIGATION DISTRIC	DUTEAU CR	8430	30B	01	03A	3000.000	B
34702C	HOYER ANDRE C/WINIFRED	SMITH CR	8492C	30D	01	03B	460.000	B
34702C				30D	02	01A	500.000	D
34733C	CANADA CEMENT LAFARGE LTD	S THOMPSON R	3819	13H	01	02C	500000.000	D
34733C				13H	02	02I	3.000	Q
34753C	MOORE DUANE S & CONNIE R	NARCOSLI CR	93B/7(E)	26A	01	03B	520.000	B
34767C	HIRAM WALKER/SONS LTD	OKANAGAN LK	8463C	30C	01	02B	300000.000	D
34767C				30C	02	02C	5000000.000	D
34809C	TRADERS COVE WATERWORKS D	OKANAGAN LK	82.E.093.2.3	30D	01	00A	100000.000	D
34829C	CHERRY CREEK WATERWORKS D	COLD CR	92.F.027.3.3	01A	01	00A	800000.000	D
34872C	PETERSEN CARSTEN & GAIL F	CHERRY CR	8433	30B	01	03B	260.000	B
34889C	PROULX JOHN A SR ET AL	PETERSON CR	3637	13B	01	03B	200.000	B
34985C	VERNON CITY OF	DUTEAU CR	8430	30B	01	00A	1140000.000	D
34998C	DEWDNEY-ALOUETTE REGIONAL	CANNELL LK	92G/8-C.D	20I	01	00A	1500000.000	D
35002C	SOMMER EBERHARD A/M V	BESSETTE CR	8437	30B	01	03B	250.000	B
35005C	INDIAN AGENCY-PENTICTON B	SHINGLE CR	1557	07B	01	03B	1000.000	B
35029C	INDIAN AFFAIRS BRANCH	SPAHOMIN CR	6165	21D	01	03B	1500.000	B
35052C	HEWITT ALBERT T	WALKER BR	82.E.013.3.1	07A	01	02E	200000.000	D
35059C	B C FOREST PRODUCTS LTD	WILLISTON LK	930025	24C	01	02A	40.000	Q
35080C	CENTRAL KOOTENAY REGIONAL	KUSKANAX CR	5100A	18A	01	00A	538454.000	D
35107C	STANCHFIELD DONALD/M S	TWIN LAKE CR	93A/4W(F)	05D	01	03B	200.000	B
35166C	FORSHAW JAMES	TWIN CR	3062B	11C	01	03B	200.000	B
35190C	WEBSTER WILLIAM R	NARCOSLI CR	93.B.078	26A	01	03B	200.000	B
35191C	WELDON ROBERT F & MOLLIE	FRASER R	93.B.058.2	26A	01	03B	375.000	B
35309C	RIVER RANCH CO LTD	TARGE CR	93.F.077	24E	01	03B	300.000	B
35447C	MCGAULEY READY MIX CONCRE	ELK R	82G/NW	08E	01	02B	180000.000	D
35472C	SPARWOOD DISTRICT OF	MACKENZIE SPR	1929	08E	01	00A	100000.000	D
35487C	B C CATTLE CO LTD	CANOE CR	274	02J	01	03B	424.000	B
35487C				02J	02	01A	5000.000	D
35554C	INDIAN AGENCY-WILLIAMS LA	DELETCHEKO CR	92N/SE	05A	01	03B	320.000	B
35571C	GENBERG ALLAN	SIMILKAMEEN R	6930	23B	01	03B	300.000	B
35623C	BREAKWATER ENTERPRISES	FRENCH CR	4811	17A	01	00	125000.000	D
35629C	ANDERSON WILLIAM H / M J	INKANEEP CR	1507	07A	01	03B	200.000	B
35653C	UCLUELET VILLAGE OF	MERCANTILE CR	92.C.093.3.2	01A	01	00A	500000.000	D
35675C	RIVERLAND ESTATES LTD	S THOMPSON R	3825	13H	01	03B	750.000	B
35712C	KITIMAT DISTRICT OF	KITIMAT R	103.I.007	25A	01	00A	3000000.000	D
35769C	ENGINEERING BRANCH	KATHLYN LK	93.L.085.1.1.3	12C	01	02I	100000.000	D
35782C	UTAH MINES LTD	MARBLE R	92L/11W(D)	01B	01	05C	33.500	Q
35898C	BENISCH JOSEPH & HILDEGAR	HART LK	1165	05D	01	03B	300.000	B
35923C	INDIAN AFFAIRS BRANCH	SIMILKAMEEN R	6904	23A	01	03B	429.000	B
35923C				23A	02	01A	10000.000	D
36031C	VERHOEVEN JOHN/G/P	SHUSWAP R	8525B	30G	01	03B	200.000	B

WATER LICENCES

Lic.#	Owner	Source	Location	Precinct	#PRP	PRP	QTY	Units
36031C				30G	02	01A	1500.000	D
36035C	HATFIELD DOUGLAS E	MEADOWBANK CR	93.G.028	24D	01	03B	240.000	B
36038C	WILSON EVELYN MRS	CAMP CR	93.B.038	26A	01	03B	200.000	B
36038C				26A	02	01A	2000.000	D
36066C	ENGINEERING BRANCH	LATIMER POND	92.G.007.4.1	20D	01	02I	350.000	B
36161C	BLOCK BROS CONTRACTORS LT	108 MILE LK & SEPA LK	1134F	05E	01	02F	400.000	B
36171C	NORTH VANCOUVER CITY OF	LYNN CR	8100E	29E	01	00A	6500000.000	D
36345C	WILLIAMS RONALD A	HORSEFLY R	93A/6W(A)	05D	01	03B	200.000	B
36347C	SQUAMISH DISTRICT OF	STAWAMUS R	8230	29C	01	00A	2500000.000	D
36348C	CHANNEL-BAR MINING CO LTD	FRASER R	92H/6-E.F	20K	01	05C	360000.000	D
36375C	BLACK MOUNTAIN IRRIGATION	MISSION CR	8406	30A	01	00A	1000000.000	D
36435C	HEICHMAN CLINTON L	SLOK CR	250	02J	01	03B	240.000	B
36576C	BLACK MOUNTAIN IRRIGATION	MISSION CR	8406	30A	01	00A	750000.000	D
36578C	KELOWNA CITY OF	OKANAGAN LK	82.E.093.2.3	30A	01	00A	125000.000	D
36659C	KIMBERLEY CITY OF	MATHEW CR	1346	06G	01	00A	1600000.000	D
36707C	PRICE WILLIAM H	BOUNDARY CR	3063	11C	01	03B	300.000	B
36727C	SHERLOCK RAYMOND A & FRAN	EAGLE R	3860A	13K	01	03B	300.000	B
36824C	DUNCAN BAYNES LIMITED	CHILCOTIN R	92.0.095	05A	01	03B	300.000	B
36831C	GUNDERSON DANIEL	RENSHAW LK	1141	05E	01	03B	200.000	B
36869C	ERICSON CHARLES M/E M	KETTLE R	3090	11D	01	03B	1050.000	B
36885C	WILEY CECIL R	MCCORKALL CR	93.G.057	24E	01	03B	400.000	B
36903C	WHISTLER RESORT MUNICIPAL	AGNEW CR	92.J.016.1.3	20H	01	00A	205000.000	D
37108C	EEK JOHN C/M D	KETTLE R	3090	11D	01	03B	500.000	B
37117C	PEACHLAND IRRIGATION DIST	PEACHLAND CR	8495	30D	01	00A	400000.000	D
37121C	STANFIELD R H	BULL R	1800	08A	01	05C	250000.000	D
37122C	TRESCHER ALFRED & HEDI	COLUMBIA R BOTTS CHANNEL	2959	10H	01	03B	221.000	B
37161C	T.A.L. DEVELOPMENTS LTD	COWICHAN LK	8726	31A	01	00	100000.000	D
37162C	T.A.L. DEVELOPMENTS LTD	COWICHAN LK	8726	31A	01	02B	15.000	G
37184C	DOUGLAS LAKE CATTLE CO	QUILCHENA CR	6167	21D	01	03B	600.000	B
37299C	BAYLIFF ANTONY G L	CHILCOTIN R	93.B.003	05A	01	03B	471.000	B
37299C				05A	02	01A	3000.000	D
37300C	BAYLIFF ANTONY G L	CHILCOTIN R	93.B.003	05A	01	03B	300.000	B
37364C	DEKALB MINING CORPORATION	INKIKUH CR	92I/6E(H)	02A	01	05C	150000.000	D
37386C	JACK CEWE LTD	TREAT CR	92.G.081	29D	01	02B	300000.000	D
37386C				29D	02	02C	5000.000	D
37465C	CLEARWATER IMPROVEMENT DI	RUSSELL CR & HASCHEAK CR	3783	13G	01	00A	400000.000	D
37511C	HOEK JACOB L/W J	NECHAKO R	93.J.001	24E	01	03B	240.000	B
37514C	DEKALB MINING CORPORATION	N INKIKUH CR	92I/6E(H)	02A	01	05C	550.000	B
37572C	MIDWAY VILLAGE OF	KETTLE R	3060	11C	01	00A	2600000.000	D
37575C	SOUTH EAST KELOWNA IRRIGA	AFFLECK CR	3132	11E	01	00A	250000.000	D
37575C				11E	02	03A	400.000	B
37763C	KELOWNA CITY OF	OKANAGAN LK	8417B	30A	01	00A	100000.000	D
37772C	MCCALLISTER GARY L & MONT	TATALASKA LK	93.F.091	12A	01	03B	400.000	B
37772C				12A	02	01A	2000.000	D
37837C	B C HYDRO & POWER AUTH	HAANS CR	103F/SE(4-F)	25B	01	02C	144000.000	D
37866C	CARIBOO PULP/PAPER CO	QUESNEL R	93.G.008	26B	01	02A	150.000	G
38003C	ENDERBY CITY OF	SHUSWAP R	8527A	30G	01	00A	4000000.000	D
38036C	CHRISTINA WATERWORKS DIST	MOODY CR	3000F	11A	01	00A	200000.000	D
38038C	CARPENTER FRANK E	KETTLE R	3090	11D	01	03B	287.000	B
38044C	BELLA TERRA VINEYARDS LTD	OKANAGAN R OLD CHANNEL	82.E.013.1.3	07A	01	03B	388.000	B
38046C	BIGLER ALMA E & DOROTHY P	TATALASKA LK	93.F.091	12A	01	03B	200.000	B
38046C				12A	02	01A	2000.000	D
38047C	PRINCE GEORGE CITY OF	NECHAKO R	93.G.097	24E	01	00A	7000000.000	D
38164C	COVERT MICHAEL D & GEORGE	OKANAGAN R	82.E.023.1.4	07A	01	03B	384.000	B
38171C	BRYANT RANCH LIMITED	GRANBY R	3034	11B	01	03B	900.000	B
38173C	SEWERS PERCY	BURRELL CR	3037	11B	01	03B	255.000	B
38177C	PRITCHARD DEVELOPMENTS LT	S THOMPSON R	3825	13H	01	00	174000.000	D
38178C	INDIAN AGENCY-LOWER SIMIL	SNEHUMPTION CR	6930	23B	01	03B	828.000	B
38183C	BLACK MOUNTAIN IRRIGATION	MISSION CR	8406	30A	01	00A	375000.000	D
38317C	REEDER HENRY & MARJORIE	NECHAKO R	6380	24E	01	03B	240.000	B

WATER LICENCES

Lic.#	Owner	Source	Location	Precinct	#PRP	PRP	QTY	Units
38388C	BEESE DAVID A	BROOKS CR	1836	08B	01	03B	210.000	B
38388C				08B	02	01A	1500.000	D
38469C	EVERNDEN ERNEST E	SIMILKAMEEN R	6931	23B	01	03B	450.000	B
38486C	SCUFFI THOMAS	TREGILLUS CR	93H/SW	26B	01	05A	10.000	B
38502C	KREITZBERG RICHARD A	BAPTISTE CR	92N/NW	05F	[illegible]	[illegible]	[illegible]	
38502C				05F				
38503C	BLACK MOUNTAIN IRRIGATION	MISSION CR	8406	30A	01	03A	575.000	B
38505C	BLACK MOUNTAIN IRRIGATION	MISSION CR	8406	30A	01	03A	1000.000	B
38507C	WEDDELL JAMES M	JOE RICH CR	8408	30A	01	03B	291.450	B
38556C	CRANBROOK CITY OF	MOYIE R	1362	06D	01	00A	5000000.000	D
38576C	ENGLAND LEROY & PHYLLIS	RENDELL CR	82E/NE	11E	01	03B	375.000	B
38641C	KOKANEE CONTRACTING LTD	MORRISON SLOUGH	93G/14-C	24E	01	02B	100000.000	D
38657C	GIBRALTAR MINES LIMITED	E CUISSON CR	93.B.059	26B	01	05C	1000.000	B
38704C	MCINTYRE BLUFF RANCH	OKANAGAN R	82.E.023.1.4	07A	01	03B	1000.000	B
38707C	KALEDEN IRRIGATION DISTRI	SKAHA LK	82.E.033.3.3	07B	01	00A	350000.000	D
38811C	WENNGATZ CONSTRUCTION & H	MISSION CR	8406	30A	01	03B	400.000	B
38868C	DAN-BAR DRILLING COMPANY	WOLF CR	82.G.082	08I	01	03B	462.500	B
38869C	BURNS LAKE VILLAGE OF	BURNS LK	3501	12A	01	00A	250000.000	D
39006C	LAKEVIEW IRRIGATION DISTR	LAMBLY CR & TERRACE LK	8491	30C	01	00A	900000.000	D
39045C	MERRYFIELD CATTLE COMPANY	CACHE CR	328	02B	01	03B	393.600	B
39045C				02B	02	01A	1000.000	D
39047C	MERRYFIELD CATTLE COMPANY	CACHE CR	328	02B	01	03B	541.200	B
39047C				02B	02	01A	500.000	D
39048C	MERRYFIELD CATTLE COMPANY	CACHE CR	328	02B	01	03B	464.400	B
39048C				02B	02	01A	500.000	D
39082C	FELDMAN FRANZ	FORSTER CR	2952	10H	01	03B	250.000	B
39217C	SILVERTON VILLAGE OF	SILVERTON CR	5502	18M	01	00A	100000.000	D
39240C	ROSS RUSSELL G & MARGARET	BRIDGE LK	92P/NE	05B	01	03B	200.000	B
39240C				05B	02	01A	2000.000	D
39312C	CENTRAL AGGREGATES LTD	PEPIN CR	92.G.008.2	20D	01	02B	300000.000	D
39574C	L K RANCHES LTD	S THOMPSON R	3826	13H	01	03B	500.000	B
39608C	TEE PEE TRAILER PARK & TR	SPRING CR	5732B-1	20C	01	02E	150000.000	D
39650C	JAMES CATTLE CO LTD	HARPER CR & VERT LK	92.O.070	05C	01	03B	1000.000	B
39657C	BUBLITZ ROGER A	NECHAKO R	93.K.010	24E	01	03B	220.000	B
39760C	MOUNTAIN MINERALS CO LTD	JUMBO CR	82KSE	10H	01	05C	288000.000	D
39764C	284081 BRITISH COLUMBIA L	WINDERMERE CR	2962A	10H	01	03B	502.000	B
39764C				10H	02	01A	500.000	D
39842C	CRANBROOK CITY OF	GOLD CR	82.G.032	06C	01	00A	8077000.000	D
39843C	CRANBROOK CITY OF	JOSEPH CR	82.G.042	06B	01	00A	3770000.000	D
39844C	CRANBROOK CITY OF	JOSEPH CR	82.G.042	06B	01	00A	1508000.000	D
39845C	CRANBROOK CITY OF	JOSEPH CR	82.G.042	06B	01	00A	3770000.000	D
39911C	HOFFMAN CYRILLE C & JOANN	KETTLE R	3134	11E	01	03B	200.000	B
39939C	EAGLE RIVER FARM LIMITED	EAGLE R	3861	13K	01	03B	240.000	B
39939C				13K	02	01A	1500.000	D
39960C	LITTLE QUALICUM WATERWORK	LITTLE QUALICUM R	4811B	17A	01	00A	200000.000	D
40073C	CEDAR HEIGHTS WATERWORKS	SHUSWAP LK	3841A	13I	01	00	250000.000	D
40410C	PIVA ALBERT J	N THOMPSON R	3630C	13B	01	03B	312.500	B
40649C	WHATSHAN CATTLE CO LTD	INONOAKLIN CR	82.E.090.1.4	18A	01	03B	500.000	B
40650C	ZERRATH ROGER P	INONOAKLIN CR	82.E.090.1.2	18A	01	03B	250.000	B
40766C	KAMLOOPS CITY OF	THOMPSON R	3752B	13F	01	00A	3000000.000	D
40839C	OKANAGAN MISSION IRRIGATI	OKANAGAN LK	8417B-1	30A	01	00A	2000000.000	D
40923C	TUTTE ROBIN	DODD CR	93.G.076	24E	01	03B	200.000	B
40935C	CHARCO WATER DISTRIBUTION	S THOMPSON R	3750A	13F	01	00	150000.000	D
40949C	HALRAY LOGGING LTD	MCLEESE CR	1157	05D	01	03B	250.000	B
40949C				05D	02	01A	1000.000	D
41050C	ARKAY CONSULTANTS LTD	HAYLMORE CR	92J/9W(D)	02D	01	03B	225.000	B
41050C				02D	02	01A	1000.000	D
41112C	GREATER NANAIMO WATER DIS	S NANAIMO R	92F/1(A)	17A	01	00A	25000000.000	D
41120C	MILLER VICTOR LEONARD & P	MONTE CR	3704	13D	01	03B	230.000	B
41209C	EVERSON RONALD & ELIZABET	KETTLE R	3092	11D	01	03B	757.500	B

WATER LICENCES

Lic.#	Owner	Source	Location	Precinct	#PRP	PRP	QTY	Units
41273C	MAKKAY PETER A & CHRISTA	SHUSWAP R	8436	30B	01	03B	200.000	B
41294C	NORTH CANYON IMPROVEMENT	THOMPSON CR	5182	18E	01	00A	100000.000	D
41294C				18E	02	03A	200.000	B
41347C	GREATER VICTORIA WATER DI	COUNCIL CR	8797	31B	01	00A	1710000.000	D
41351C	PRINCE GEORGE CITY OF	NECHAKO R	93.6.097	24E	01	00A	10300000.000	D
41352C	WICKI FRANK	DODD CR & CARNE CR	93.6.076	24E	01	03B	200.000	B
41352C				24E	02	01A	2500.000	D
41406C	BLACK MOUNTAIN IRRIGATION	MISSION CR	8406	30A	01	00A	142057.000	D
41407C	BLACK MOUNTAIN IRRIGATION	MISSION CR	8406	30A	01	00A	120860.000	D
41410C	BLACK MOUNTAIN IRRIGATION	MISSION CR	8406	30A	01	00A	148751.000	D
41492C	PRINCE GEORGE CITY OF	NECHAKO R	93.6.096	24E	01	00A	1250000.000	D
41505C	PIVA GORDON & IDA V	N THOMPSON R	3631A	13B	01	03B	200.000	B
41540C	VAN OYEN JOHN W & DOREEN	KETTLE R	3120	11E	01	03B	400.000	B
41556C	BOPFINGER WALTER & LILLIA	TRINITY CR	82L/7W(E)	30G	01	03B	300.000	B
41578C	CENTRAL KOOTENAY REGIONAL	FITZSTUBBS CR	82K/SW4-6,5-B	18I	01	00A	500000.000	D
41596C	FRUITVALE WATERWORKS DIST	FRUITVALE CR	5327B	18D	01	00A	250000.000	D
41796C	LEIR JAMES H	SHATFORD CR	82.E.032.4.4	07B	01	03B	1490.000	B
41797C	LEIR JAMES H	MARRON R	82.E.032.4.4	07B	01	03B	1490.000	B
41807C	MERZ DAVID L & LOIS	NECHAKO R	93.K.008	24E	01	03B	200.000	B
41862C	NORTH CAMPBELL RIVER WATE	CAMPBELL R	92K/3-C	17C	01	00A	1300000.000	D
41958C	RECLAMATION DYKING DISTRI	KOOTENAY R & BOUNDARY CR	82.F.008.1.2	18E	01	03A	2400.000	B
41981C	BOND DONALD D	N THOMPSON R	3806	13G	01	03B	700.000	B
42027C	LIONS BAY VILLAGE OF	HARVEY CR	92.G.044.4.2	29E	01	00A	150000.000	D
42035C	LANG BAY WATERWORKS LTD	SILVER CR	92.F.079.3.4	29D	01	00	250000.000	D
42126C	GRAND FORKS IRRIGATION DI	MORRISSEY CR	3030B	11B	01	03A	374.100	B
42222C	GENELLE IMPROVEMENT DISTR	CHINA CR	5284C	18K	01	00A	150000.000	D
42223C	GENELLE IMPROVEMENT DISTR	CHINA CR	5284C	18K	01	00A	100000.000	D
42262C	DE BOER JOHN & SHARON	BIG CR	92.0.095	05A	01	03B	1000.000	B
42262C				05A	02	01A	5000.000	D
42263C	DE BOER JOHN & SHARON	BIG CR	92.0.095	05A	01	03B	736.500	B
42270C	LANGAN ANDREW S	BEEDY CR	93.B.070	05D	01	03B	225.000	B
42282C	WATT JAMES D	N THOMPSON R	3637D	13B	01	03B	375.000	B
42313C	BRIGGS GEORGE S	FAGE CR	92P/NE	13C	01	03B	267.000	B
42387C	B X RANCH LTD	B X CR	8582E	30F	01	03B	266.500	B
42443C	DEL ORO WATERWORKS LTD	S THOMPSON R	3690B	13D	01	00	300000.000	D
42466C	PARKLAND HOLDINGS LTD	PRINGLE CR	3735A	13E	01	03B	322.000	B
42648C	69 CATTLE CO LTD	S THOMPSON R	3705	13D	01	03B	495.000	B
42693C	BJORN ROBERT M & EILEEN S	KOOTENAY R	1801	08A	01	03B	212.500	B
42695C	MCDONALD RANCH & LUMBER L	PHILLIPPS CR	2010	08H	01	03B	300.000	B
42782C	GREGG FRED A	AITKEN CR	93.L.048	12C	01	03B	200.000	B
42782C				12C	02	01A	1500.000	D
42791C	SINCLAIR GANDERTON CONTRA	MOWBRAY BR	4808	17A	01	02B	100000.000	D
43028C	BAKKER THEODORUS C & MAUR	KAMLOOPS LK	3734	13F	01	03B	420.000	B
43113C	WESTMIN RESOURCES LTD-WES	WEBSTER CR	92F/NW	17C	01	05C	200000.000	D
43194C	MCLEOD ROSS A	SALMON R	3724B	13E	01	03B	200.000	B
43210C	CACHE CREEK VILLAGE OF	BONAPARTE R	328A	02B	01	00A	1076908.000	D
43215C	SMITH JOHN R & VIRGINIA L	HOLTRY CR	93C/SW	05A	01	03B	200.000	B
43215C				05A	02	01A	1000.000	D
43221C	SOUTH OKANAGAN LANDS IRRI	OKANAGAN R	82.E.023.3.2	07A	01	00A	500000.000	D
43221C				07A	02	03A	58656.800	B
43222C	SOUTH OKANAGAN LANDS IRRI	OKANAGAN R	82.E.013.1.3	07A	01	03A	1500.000	B
43261C	TELKWA CORPORATION OF THE	BULKLEY R	93.L.065	12C	01	00A	200000.000	D
43293C	GREATER VICTORIA WATER DI	CHARTERS R	92.B.042.2.1	31B	01	00A	500000.000	D
43312C	DONCHI BERNARD L	N THOMPSON R	3818	13H	01	03B	222.000	B
43390C	CENTRAL KOOTENAY REGIONAL	MACLEOD CR	5100	18A	01	00A	500000.000	D
43407C	WICKLOW WEST HOLDINGS LTD	FRISKEN CR	6153	21D	01	03B	250.000	B
43512C	INDIAN AFFAIRS BRANCH	SHUSWAP R	8524	30G	01	03B	400.000	B
43569C	WESTERN PULP INC-PORT ALI	VICTORIA LK	92L/SW	01B	01	02A	100.000	Q
43651C	STEPP JOHN W	THOMPSON R	348	02C	01	03B	210.000	B
43655C	GAVEX RESOURCE CORP	GAVIN CR	93A/5E(6)	05D	01	05A	100000.000	D

WATER LICENCES

Lic.#	Owner	Source	Location	Precinct	#PRP	PRP	QTY	Units
43677C	HOL ROGER D	SIMILKAMEEN R	6930	23B	01	03B	210.000	B
43787C	WEST SLOPE UTILITY CORPOR	OKANAGAN LK	8585	30F	01	00	180500.000	D
43856C	INDIAN AGENCY-UPPER NICOL	CHAPPERON LK	6158	21D	01	03B	440.000	B
43872C	WILDLIFE BRANCH	SAUGUM CR	1891	08D	01	03B	260.000	B
43876C	WILDLIFE BRANCH	KOOTENAY R	1891	08D	01	03B	260.000	B
43995C	THOMSON WILLIAM	BONAPARTE R	92P/3W(EF)	02B	01	03B	250.000	B
44000C	NED'S CREEK RANCH LTD	S THOMPSON R	3705	13D	01	03B	240.000	B
44041C	POPE & TALBOT LTD	KETTLE R	3090	11D	01	02I	432000.000	D
44064C	PRINCE GEORGE CITY OF	NECHAKO R	93.G.096	24E	01	00A	30000000.000	D
44212C	CRAIN ALBERT G	CANNON CR	93.B.080	26B	01	03B	240.000	B
44359C	C & A MINK RANCH LTD	BIG BAR CR					[illegible]	B
44398C	INVERMERE DISTRICT OF	GOLDIE CR	2962	10H	01	00A	100000.000	D
44399C	INVERMERE DISTRICT OF	GOLDIE CR	2662	10H	01	00A	100000.000	D
44399C				10H	02	03A	300.000	B
44728C	LILLOOET VILLAGE OF	SETON R	102A	02D	01	00A	2000000.000	D
44786C	BELWAY LAWRENCE	CAMERON CR	1401	06J	01	03B	200.000	B
44819C	LUND WATERWORKS DISTRICT	THULIN LK	8265	29D	01	00A	100000.000	D
45153C	MACHL ARNE	MYERS CR	3091	11D	01	03B	1000.000	B
45199C	CAROLLY RANCH	WEBSTER CR	93.B.047	26A	01	03B	200.000	B
45250C	PRINGLE ESTATE	MONTE CR	3704	13D	01	03B	290.500	B
45250C				13D	02	01A	1000.000	D
45253C	GAGLARDI WILLIAM J	KAMLOOPS LK	3754	13F	01	03B	285.000	B
45258C	GARTHWAITE GORDON	REY CR	6009	21A	01	03B	365.500	B
45258C				21A	02	01A	500.000	D
45277C	NORTH VANCOUVER DISTRICT	KENNEDY LK	8100	29E	01	00A	750000.000	D
45333C	NORTH FORK DEVELOPMENT LT	GRANBY R	3032A	11B	01	03B	750.000	B
45334C	CAIRNS CHARLES A & CAROLI	GRANBY R	3033	11B	01	03B	300.000	B
45353C	WILCOTT URBAIN & THERESA	SANDERS BR	82.L.013.3.4	30F	01	03B	300.000	B
45353C				30F	02	01A	1000.000	D
45589C	JARDINE ENTERPRISES INCOR	S THOMPSON R	3824A	13H	01	03B	225.000	B
45589C				13H	02	01A	1000.000	D
45625C	KAYFROBUG HOLDINGS INC	SHUSWAP R	8436	30B	01	03B	200.000	B
45625C				30B	02	01A	1000.000	D
45658C	LOEWEN HENRY & LENA	BURTON CR	1954	08F	01	03B	200.000	B
45658C				08F	02	01A	500.000	D
45661C	ZEHNDER FRIEDRICH & VRENI	GOLDIE CR	2960	10H	01	03B	500.000	B
45928C	PIKE MOUNTAIN RANCH LTD	GULLIFORD CR	6992	23D	01	03B	200.000	B
45969C	GREEN WILLIAM O	KOOTENAY R	82.G.082	06A	01	03B	320.000	B
45971C	ALEGRE GASTON	KOOTENAY R	1400	06J	01	03B	200.000	B
45973C	REAY CHARLES D	SAND CR	1957	08F	01	03B	225.000	B
45974C	FAIRMONT HOT SPRINGS CHAR	LANSDOWNE CR	2903	10C	01	03B	250.000	B
45974C				10C	02	01A	3000.000	D
46138C	VAVENBY IMPROVEMENT DISTR	N THOMPSON R	3786A	13G	01	00A	105500.000	D
46159C	TIPLER CAROLYN C	W KETTLE R	3128	11E	01	03B	200.000	B
46231C	MCGAULEY READY MIX CONCRE	COLUMBIA R	82.F.002.4.3	18K	01	02B	200000.000	D
46255C	HAZELTON VILLAGE OF	TWO MILE CR	93.M.022	12C	01	00A	750000.000	D
46329C	ALTHERR-SCHELLENBERG CATT	CHILCOTIN R	93.B.012	05A	01	03B	500.000	B
46331C	WESTWICK FREDERICK H	BOTTLE CR	1162	05D	01	03B	200.000	B
46355C	PINEVIEW RANCHES LTD	KAMLOOPS LK	3754	13F	01	03B	225.000	B
46356C	PINEVIEW RANCHES LTD	KAMLOOPS LK	3754	13F	01	03B	375.000	B
46527C	LORNEX MINING CORPORATION	PUKAIST CR	92I/6E(H)	02A	01	05C	3075000.000	D
46538C	MOONEY GENE W	S FRENCH BAR CR	92O/SE	02J	01	03B	201.000	B
46592C	DOUGLAS LAKE CATTLE CO	QUILCHENA CR	6167	21D	01	03B	400.000	B
46787C	BARRIERE IMPROVEMENT DIST	BARRIERE R	3637E	13B	01	00A	1500000.000	D
46831C	FALKENHOLT KURT A & HEATH	HELLROARER CR	3134	11E	01	03B	300.000	B
46957C	DEADMAN'S CREEK IMPROVEME	DEADMAN R	386	02F	01	03A	5760.000	B
46963C	ORD EDMUND B	N THOMPSON R	3812	13H	01	03B	750.000	B
47046C	BIX RANCH LIMITED	WHITLEY CR	92P/6E(A)	02B	01	03B	200.000	B
47051C	MCNEIL DANIEL G	JIM CR	92P/NE	05B	01	03B	500.000	B
47064C	AFTON OPERATING CORPORATI	KAMLOOPS LK	3753	13F	01	03B	720.000	B

WATER LICENCES

Lic.#	Owner	Source	Location	Precinct	#PRP	PRP	QTY	Units
47064C				13F	02	05C	3960000.000	D
47068C	STIRLING WILLIAM	NICOLA R	92.I.016.1.3	21A	01	03B	250.000	B
47103C	TAHSIS VILLAGE OF	MCKELVIE CR	92E/NE	01A	01	00A	100000.000	D
47443C	TOMAN JAROSLAV & ELIZABET	NEHALLISTON CR	366B	13C	01	03B	237.500	B
47520C	VANANDA WATERWORKS DISTRI	PRIEST LK	92.F.078.1.3	29G	01	00A	100000.000	D
47548C	NORTH SALTSPRING WATERWOR	ST MARY LK	92.B.083.3.4	31C	01	00A	375000.000	D
47639C	MANN HENRY Y	BALDY CR	1507	07A	01	03B	245.000	B
47770C	CACHE CREEK VILLAGE OF	LOPEZ CR	328	02B	01	00A	538454.000	D
47798C	KELOWNA CITY OF	KELOWNA CR	8421A	30A	01	03A	516.480	B
47867C	WESTCOAST TRANSMISSION CO	FORT NELSON R	94.J.067	15	01	02B	290000.000	D
47974C	REVELSTOKE CITY OF	BRIDGE CR & HAMILTON CR	82.L.100.3.3	27E	01	00A	3000000.000	D
47975C	SOUTH EAST KELOWNA IRRIGA	POOLEY CR	82E/14-C	30A	01	00A	750000.000	D
47976C	SOUTH EAST KELOWNA IRRIGA	POOLEY CR	82E/14-C	30A	01	03A	5500.000	B
48027C	TRAIL CITY OF	STUSSI CR	82.F.002.3.3	18K	01	00A	120000.000	D
48029C	TRAIL CITY OF	EDGREN CR	82.F.002.3.3	18K	01	00A	270000.000	D
48135C	HANSEN MAURICE F	MATHER CR	1200	06A	01	03B	303.000	B
48136C	HANSEN MAURICE F	MATHER CR	1200	06A	01	03B	646.000	B
48141C	WESTAR MINING LIMITED	MICHEL CR	1929	08E	01	05A	300000.000	D
48180C	COCHRANE MALCOLM R	WARDMAN CR	83.E.002	24B	01	03B	200.000	B
48180C				24B	02	01A	1000.000	D
48246C	RISKE CREEK RANCHING CO L	FRASER R	1052	05A	01	03B	990.000	B
48287C	VAN OYEN JOHN W & THEODOR	OKANAGAN LK	8492H	30D	01	03B	300.000	B
48295C	CRANBROOK CITY OF	JOSEPH CR	82.G.042	06B	01	00A	475000.000	D
48406C	KASLO VILLAGE OF	KASLO R	3950A	14A	01	00A	300000.000	D
48461C	MAYOOK VALLEY RANCH LTD	BULL R	1800	08A	01	03B	312.500	B
48519C	SUMAS PRAIRIE ESTATES LTD	SUMAS R	5700G	20A	01	03B	2000.000	B
48586C	ANGLEMONT UTILITIES LIMIT	HUDSON CR	82L/14E(G)	13I	01	00	200000.000	D
48587C	ANGLEMONT UTILITIES LIMIT	SHUSWAP LK	3843B	13I	01	00	446000.000	D
48615C	CASORSO VICTOR R	VENNER CR	82E/6W(D)	07A	01	03B	350.000	B
48629C	SENN GOTTRIED J & OLIVE E	EAGLE R	3863B	13X	01	03B	200.000	B
48683C	INDIAN AGENCY-PORT SIMPSO	STUMAUN CR	103J/NE	25C	01	00	375000.000	D
48720C	CORNWALL SONIA & HUGH & M	BORLAND CR	1122	05E	01	03B	400.000	B
48745C	MCCARTHY LELAND & RICHARD	LAC DES ROCHES	92P/SE	13C	01	02E	100000.000	D
48773C	INDIAN AFFAIRS BRANCH	KOOTENAY R	1222	06B	01	03B	300.000	B
48787C	VERMILLION IRRIGATION DIS	KINDERSLEY CR	2950	10H	01	03A	750.000	B
48825C	TATELKUZ RANCH LIMITED	DAVIDSON CR	93FSE	12A	01	03B	365.000	B
48825C				12A	02	01A	2000.000	D
48889C	SQUAMISH-LILLOOET REGIONA	DICKEY CR	105	02D	01	00A	580000.000	D
48939C	KIMBERLEY CITY OF	ST MARY R	1341	06G	01	00A	600000.000	D
48951C	DIVERSIFIED HOLDINGS LIMI	BRADY CR	2963	10H	01	03B	205.000	B
48969C	ENGINEERING BRANCH	COLUMBIA R	5284A	18K	01	02I	130000.000	D
49134C	DAVID THOMPSON FORT HOLDI	SHUSWAP CR	2953	10H	01	03B	375.000	B
49139C	RUAULT WILLIAM E	BRADY CR	2963	10H	01	03B	200.000	B
49221C	SCAC CANADA CONCRETE PROD	S THOMPSON R	3690A	13D	01	02B	300000.000	D
49226C	VASEUX CREEK W U C	VASEUX CR	82.E.023.3.2	07A	01	03B	263.600	B
49228C	RUECHEL MICHAEL & CHARLOT	CHERRY CR	82.L.028.1.3	30B	01	03B	450.000	B
49228C				30B	02	01A	1000.000	D
49309C	VALLEY VISTA RANCHING CO	KOOTENAY R	1801	08A	01	03B	540.000	B
49332C	WESTCOAST TRANSMISSION CO	BURBAGE CR	94.J.067	15	01	02B	500000.000	D
49361C	BUNTING JOHN EDWARD ALLAN	BONAPARTE R	320	02B	01	03B	408.000	B
49567C	BASQUE IMPROVEMENT DISTRI	THOMPSON R	302	02A	01	03B	375.000	B
49581C	SHUSWAP LAKE UTILITIES LT	SHUSWAP LK	3841A	13I	01	00	396000.000	D
49763C	INDIAN AFFAIRS BRANCH	SHINGLE CR	1550C	07B	01	03B	603.000	B
49763C				07B	02	01A	20000.000	D
49892C	ASHCROFT VILLAGE OF	THOMPSON R	304A	02A	01	00A	2500000.000	D
49995C	B C HYDRO & POWER AUTHORI	PEACE R	93.P.091	24C	01	02B	432000.000	D
49995C				24C	02	02D	55000.000	D
50016C	SOUTH FORK PLACER MINES	HURLEY R	92.J.086.2.4	02D	01	05A	750000.000	D
50044C	B C HYDRO & POWER AUTHORI	DEADMAN CR	82M/SE(1-B)	27E	01	02D	250000.000	D
50056C	FALKE DWAIN C & BETTY R	MATHER CR	1200	06A	01	03B	250.000	B

WATER LICENCES

Lic.#	Owner	Source	Location	Precinct	#PRP	PRP	QTY	Units
50056C				06A	02	01A	2000.000	D
50058C	PIGHIN ERNEST P	ST MARY R	1220	06B	01	03B	300.000	B
50066C	HARTWELL DUANE K & FAY D	LUSSIER R	1980A	08G	01	03B	200.000	B
50077C	LAKE ROY M & JANE B	HAMILL CR	4010	14B	01	03B	250.000	B
50092C	POGANY JOSEPH	KOOTENAY R	5184A	18E	01	03B	250.000	B
50112C	ANDERSONS SOD FARM LTD	HATZIC SLOUGH	5882	20I	01	03B	238.000	B
50129C	CHETWYND DISTRICT OF	PINE R	93.P.062	22A	01	00A	450000.000	D
50155C	LADYSMITH TOWN OF	BANON CR	8718A	31A	01	00A	800000.000	D
50221C	MEADOWS DAVE E	S THOMPSON R	3705	13D	01	03B	300.000	B
50320C	SOUTH HAZELTON WATERWORKS	CHICAGO CR	93.M.022	12C	01	00A	100000.000	D
50374C	BARRIERE IMPROVEMENT DIST	LEONIE CR	3638	13B	01	00A	300000.000	D
50376C	WAGSTAFF ARTHUR F & FRANC	N THOMPSON R	3643	13B	01	03B	300.000	B
50398C	ROBERT MINES LTD	BOUNDARY CR	3061A	11C	01	05C	200000.000	D
50438C	STEWART SUSAN J	SPILLIMACHEEN R	2821	10F	01	03B	270.000	B
50598C	CRESTON VALLEY FOODS LTD	URMSTON CR	5184	18E	01	02B	250000.000	D
50649C	V J MADDEN & CO LTD	MACKIN CREEK	93.B.038	05D	01	03B	462.500	B
50650C	THOMSON LAND & CATTLE CO	MACKIN CR	93.B.028	05D	01	03B	299.000	B
50688C	ROSEN CARL G	PATTI BR & DART BR	4809	17A	01	02E	238000.000	D
50688C				17A	02	01A	1000.000	D
50688C				17A	03	03B	1.500	B
50723C	SUNSHINE COAST REGIONAL D	CHAPMAN CR	92.G.042.3.4	29C	01	00A	1000000.000	D
50770C	DRIEDIGER RANDY D & SUSAN	CHURCHILL CR	8438	30B	01	03B	270.000	B
50778C	LAKEVIEW IRRIGATION DISTR	LAMBLY CR	8491	30D	01	00A	1000000.000	D
50821C	CHILCOTIN APIARIES	CHILCOTIN R	93.B.013	05A	01	03B	480.000	B
50864C	CRESTON VALLEY FOODS LTD	URMSTON CR	5184	18E	01	02B	100000.000	D
50865C	CRESTON VALLEY FOODS LTD	URMSTON CR	5184	18E	01	02B	300000.000	D
50940C	H WILLIAMSON BLACKTOP & L	BORLAND CR	1122	05E	01	03B	231.200	B
50942C	DE BOER JOHN & SHARON	VALLEY CR	1122	05E	01	03B	294.400	B
50945C	RIVER GLEN RANCHES LTD	VALLEY CR	1122	05E	01	03B	290.000	B
50945C				05E	02	01A	2000.000	D
50956C	BITTNER ALLAN W	KLINAKLINI R	92N/NE(15-E)	05F	01	03B	240.000	B
50959C	153 MILE RANCH	HAWKS CR	1161	05D	01	03B	200.000	B
50973C	MORAY RITA L	S THOMPSON R	3750A	13F	01	03B	437.500	B
51001C	SUSSEX FARMS LTD	W KETTLE R	3124	11E	01	03B	200.000	B
51004C	MANN HENRY Y	BALDY CR &MCCUDDY CR	1507 & 1511	07A	01	03B	300.000	B
51162C	SAVONA WATERWORKS DISTRIC	KAMLOOPS LK	3753A	13F	01	00A	400000.000	D
51356C	CHILANCOH RANCH LTD	CHILCOTIN R	93.B.013	05A	01	03B	240.000	B
51467C	J & R INVESTMENTS	COWPER SPR & COXEY SPR	92.G.061.1.3	29D	01	02E	298000.000	D
51478C	BEPPLE CHRISTIAN & JULIA	WELLAND CR & AUSTEN CR	384	02F	01	03B	210.000	B
51478C				02F	02	01A	1500.000	D
51535C	HOCHSTEINER GAIL & ALBIN	OSOYOOS LK	82.E.003.2.2	07A	01	03B	448.000	B
51601C	JACKSON EUGENE E & PATRIC	SILVERDALE CR	5281	20I	01	02E	100000.000	D
51604C	GORDON CREEK RANCH	NICOLA R	6101	21C	01	03B	212.500	B
51712C	SALMON JOHN W	DAVENPORT POND	4805B	17A	01	02E	175000.000	D
51865C	BOWING PAUL E & WENDY J	N THOMPSON R	3785	13G	01	03B	200.000	B
51994C	CLINTON VILLAGE OF	CLINTON CR	92P/4E(G)	02B	01	00A	300000.000	D
52123C	MILLER J HOWARD	CHERRY CR	3753	13F	01	03B	493.500	B
52148C	HEMLOCK VALLEY WATER SERV	COHEN CR	92H/5-EF	20H	01	00	150000.000	D
52228C	MACLAREN FOREST PRODUCTS	MOLYBDENITE CR	93A/SE(2-D)	05D	01	05C	400000.000	D
52257C	REAY LARRY D & SUSAN V	SAND CR	1957	06F	01	03B	250.000	B
52450C	GREATER VICTORIA WATER DI	DECEPTION GULCH	9797	31B	01	00A	1559400.000	D
52452C	GREATER VICTORIA WATER DI	LEECH R	92B/12(C)	31B	01	00A	19594000.000	D
52452C				31B	02	08A	25000.000	B
52514C	GENSTAR CEMENT LIMITED	FRASER R	92.G.015.2.4	20F	01	02C	4320000.000	D
52514C				20F	02	02I	2160000.000	D
52523C	MOORE WILLIAM S & EDITH H	QUESNEL R	93.B.089	26B	01	03B	200.000	B
52571C	SAN JOSE CATTLE CO LTD	KNIFE CR	1124	05E	01	03B	350.000	B
52573C	TRAVERS CHARLES M & RUTH	COCHIN CR	92N/NE(16-D)	05A	01	03B	268.000	B
52574C	ROCKY POINT DEVELOPMENT L	S THOMPSON R	3703	13D	01	03B	810.000	B
52698C	ALLAN JAMES D & DOROTHY V	ENRIGHT LK	92P/SE(2-F)	02F	01	03B	200.000	B

WATER LICENCES

Lic.#	Owner	Source	Location	Precinct	#PRP	PRP	QTY	Units
52756C	WARFIELD VILLAGE OF	COLUMBIA R	5278A	18K	01	00A	200000.000	D
52759C	MINNICH P S	LAURIENTE CR	5130F	18C	01	02E	150000.000	D
52912C	INVERMERE DISTRICT OF	ROGUN & SALTER CR	2962	10H	01	00A	400000.000	D
52827C	BRINCO MINING LTD-CASSIAR	TROUTLINE CR	104F	03	01	02I	200000.000	D
52828C	BURNS LAKE VILLAGE OF	BURNS LK	3501	12A	01	00A	300000.000	D
52838C	INSKIP DOUGLAS V	RUSHTON CR	3829	13H	01	03B	233.000	B
52985C	LORNEX MINING CORPORATION	MCKAY CR	301	02A	01	05C	500.000	B
52993C	RIO VISTA RANCH LTD	MONTE CR	3703	13D	01	03B	210.000	B
53094C	INDIAN AGENCY-SHUSWAP BAN	STODDART CR	2953	10H	01	03B	200.000	B
53094C				10H	02	01A	2000.000	D
53162C	KEREMEOS IRRIGATION DISTR	ASHNOLA R	6901	23B	01	03A	10000.000	B
53186C	ST MARY'S PRAIRIE IRRIGAT	ST MARY R	1340	06G	01	03A	2500.000	B
53188C	KUNTZ VERNON C & LINDA L	LUKE CR	1340	06G	01	03B	324.800	B
53188C				06G	02	01A	1000.000	D
53224C	CHUTTER RANCH LTD	HAMILTON CR	6056	21B	01	03B	300.000	B
53226C	SCHALLES JOHN W & IRMA G	THOMPSON R	311	02B	01	03B	1800.000	B
53228C	DUCKS UNLIMITED (CANADA)	MUENCH CR	92P/13E(B)	05E	01	03B	200.000	B
53229C	RIVER GLEN RANCHES LTD	BORLAND CR	1122	05E	01	03B	277.800	B
53335C	SOUTHERN INTERIOR BEEF CO	OKANAGAN R OLD CHANNEL	82.E.013.1.3	07A	01	03B	900.000	B
53338C	CASTLEGAR CITY OF	COLUMBIA R	5130F	18C	01	00A	6500000.000	D
53387C	SLEE TREVOR G	MILLER CR	2010	08H	01	03B	219.400	B
53435C	SCURRY RAINBOW OIL LIMITE	CHARLIE LK	94.A.036	22B	01	02I	705.000	B
53511C	WERNER JOSEPH & MARGUERIT	SHUSWAP R	8525C	30G	01	03B	200.000	B
53570C	MUIR GEORGE & MARION	WHITEWOOD CR	3631A	13B	01	03B	219.100	B
53585C	MACKENZIE GORDON S & LIND	RAFT R	3783	13G	01	03B	300.000	B
53626C	CRESTON DYKING DISTRICT	KOOTENAY R	5176C	18E	01	03A	2000.000	B
53667C	PIGHIN ELLIOT B & PHYLLIS	WILD HORSE R	1890	08D	01	03B	540.000	B
53706C	HIGHMONT OPERATING CORPOR	FOUQUET CR & FOURIER CR	92I/7W(E)	21A	01	05C	144000.000	D
53778C	BROKEN STONE RANCH LTD	KETTLE R	82E/2W(D)	11D	01	03B	600.000	B
53836C	SUESS GOTTFRIED	SINKUT LK	936.091	24E	01	03B	200.000	B
53883C	PIQUE JOACHIM A	LAMB CR	1360	06D	01	03B	300.000	B
53952C	HAWKE JESSE W & RUTH A	NORBURY CR	1801	08A	01	03B	266.500	B
53983C	FARM CREDIT CORPORATION	FATIMA POND	3122	11E	01	03B	200.000	B
53983C				11E	02	01A	1000.000	D
54014C	HOPE NORMAN B & JUNE R	COCKBURN LK	8254	29D	01	02E	100000.000	D
54036C	DUCK LAKE DYKING DISTRICT	KOOTENAY R	82.F.018.3.3	18E	01	03A	625.000	B
54078C	GARDNER RANCH LIMITED	NICOLA R	92.I.016.1.3	21B	01	03B	226.500	B
5410[illegible]	PROVINCIAL AGRICULTURAL L	SKOOKUMCHUK CR	82.G.092	06F	01	03B	700.000	B
54110C	GRANISLE VILLAGE OF	BABINE LK	93L/16(E)	12C	01	00A	100000.000	D
54435C	BLEWETT RECREATION SOCIET	SANDY CR	82F/6W(F)	18H	01	02I	170000.000	D
54443C	ABLITT RONALD G & GERALDI	ELYOT BR	93.B.078	26A	01	03B	240.000	B
54443C				26A	02	01A	1000.000	D
54504C	SINCLAIR C ROY & BETTY A	WILLIE PHILLIPPS CR	2011	08H	01	03B	228.000	B
54504C				08H	02	01A	500.000	D
54507C	COY FILMER R & JAMES E	DUTCH CR	2902	10C	01	03B	500.000	B
54511C	CROMWELL FREDERICK M & RO	KETTLE R	82E/7W(F)	11E	01	03B	200.000	D
54568C	CAROLIN MINES LTD	ELMAN CR	92H/11W(C)	20G	01	02C	240000.000	D
54568C				20G	02	02D	10000.000	D
54611C	SMEAL ROBERT W	LYNROSE CR	92.K.026	29D	01	02E	150000.000	D
54633C	MCGREGOR JAMES A	ALKALI CR	104G(14W)	03	01	03B	210.000	B
54635C	SPARWOOD DISTRICT OF	CUMMINGS CR	1929	08E	01	00A	5000000.000	D
54690C	PROVINCIAL AGRICULTURAL L	LITTLE BULL CR	1801	08A	01	03B	1205.500	B
54690C				08A	02	01A	3000.000	D
54760C	FOGH ARNE A & CAROL A	SHUSWAP R	8527B	30G	01	03B	280.000	B
54772C	DAVISON THOMAS & BARBARA	KETTLE R	3122	11E	01	03B	497.560	B
54778C	OKANAGAN SAUSAGE LTD	KETTLE R	3125	11E	01	03B	364.440	B
54779C	SHASKO HAROLD & ANNETTE	KETTLE R	3122	11E	01	03B	226.620	B
54780C	TURTLE ISLAND LAND STEWAR	KETTLE R	3122	11E	01	03B	260.320	B
54781C	HESKETH DAVID	KETTLE R	3122	11E	01	03B	779.280	B
54782C	FARM CREDIT CORPORATION	KETTLE R	3122	11E	01	03B	405.080	B

WATER LICENCES

Lic.#	Owner	Source	Location	Precinct	#PRP	PRP	QTY	Units
54886C	CHINOOK COVE RANCHES LTD	N THOMPSON R	3638A	13B	01	03B	325.000	B
54924C	FELDMAN PETER	COLUMBIA R BOTTS CHANNEL	2959	10H	01	03B	347.000	B
54988C	SORRENTO WATERWORKS DISTR	SHUSWAP LK	3711E	13D	01	00A	125000.000	D
55055C	MAURER E FRITZ & SHIRLEY	WINDERMERE CR	2962A	10H	01	03B	225.000	B
55080C	KENNEDY ROBERT P	TAPPEN CR	3720B	13E	01	03B	320.000	B
55100C	AUSTRALIAN RANCH LTD	AUSTRALIAN CR	93.B.078	26B	01	03B	527.000	B
55100C				26B	02	01A	5000.000	D
55103C	AUSTRALIAN RANCH LTD	AUSTRALIAN CR	93.B.078	26B	01	03B	555.000	B
55234C	BAVARIAN FARMS LTD	BAVARIAN DITCH	8525A	30G	01	03B	.	
[illegible]	[illegible]							
55359C	INDIAN				01	00	125000.000	D
55402C	RAYLEIGH WATERWORKS DISTR	N THOMPSON R	3812	13H	01	00A	274000.000	D
55430C	SAMSON'S POULTRY FARM LTD	SHESUNIA R	93.M.033	12C	01	03B	400.000	B
55481C	MARCER RANCHES LTD	KOOCANUSA LK	82.G.014	06C	01	03B	280.000	B
55501C	KERSHAW WILLIAM T & BERNE	N THOMPSON R	3643	13B	01	03B	500.000	B
55547C	ERICKSON GOLD MINING CORP	TROUTLINE CR	104P(5B)	03	01	05C	100000.000	D
55608C	CLOAREC LOUIS J	LUSSIER R	1980A	08G	01	03B	300.000	B
55609C	BRADFORD WILLIAM T & HARL	LUSSIER R	1980A	08G	01	03B	332.500	B
55689C	ONWARD CATTLE CO LTD	S THOMPSON R	3824B	13H	01	03B	360.000	B
55689C				13H	02	01A	500.000	D
55722C	MACMILLAN BLOEDEL LTD-POW	POWELL R	92F/NE	29D	01	02A	17.000	G
55723C	ALBERNI-CLAYOQUOT REGIONA	SUGSAW LK	2	01A	01	00A	250000.000	D
55813C	KASLO VILLAGE OF	KEMP CR	3950	14A	01	00A	100000.000	D
55814C	KASLO VILLAGE OF	BROOKS,CLARKE,CROSS CRS	3950	14A	01	00A	500000.000	D
55861C	MACLENNAN WARREN & HEATHE	RAFT R	3783	13G	01	03B	240.000	B
55864C	ZIMMERMANN WOLFGANG & GER	S THOMPSON R	3705	13D	01	03B	240.100	B
55923C	LANCASTER LEONARD W & NAN	RED CANYON CR	2012	08H	01	03B	200.000	B
56103C	B C BUILDINGS CORPORATION	TRANQUILLE R	3885	13J	01	03B	858.900	B
56193C	STRATA CORPORATION K-353	S THOMPSON R	3824	13H	01	00	110000.000	D
56193C				13H	02	02F	210.000	B
56198C	RUDIGER CHAROLAIS RANCHES	WORD CR	92O/NE(9-F)	05C	01	03B	240.000	B
56198C				05C	02	01A	25000.000	D
56199C	CENTRAL NATIVE FISHERMENS	UPPER LK	103A/SE(1-H)	05F	01	02B	144500.000	D
56214C	ENDERLIN RONALD C & RUSS	LYNX CR	94A.001	24C	01	03B	200.000	B
56217C	AMAX OF CANADA LTD	CLARY LK	103P/SW(6-E)	25C	01	05C	3500000.000	D
56314C	LABOUNTY CLARENCE H & ISA	RED WILLOW LK	93P/11E(A)	02B	01	03B	200.000	B
56352C	JACKSON EUGENE F & PATRIC	SILVERDALE CR	5881	20I	01	02E	100000.000	D
56379C	FEDOR J A	N NINE MILE CR	1508	07A	01	03B	300.000	B
56443C	WESTBANK IRRIGATION DISTR	ALOCIN CR	82L/4W(C)	21D	01	03A	300.000	B
56504C	100 MILE HOUSE VILLAGE OF	BRIDGE CR	1003	05B	01	00A	1500000.000	D
56533C	POWER RONALD G	KETTLE R	3121	11E	01	03B	300.000	B
56540C	CENTRAL KOOTENAY REGIONAL	BROUSE CR & HALFWAY CR	5100	18A	01	00A	100000.000	D
56541C	CENTRAL KOOTENAY REGIONAL	BROUSE & HALFWAY CRS	5100	18A	01	00A	400000.000	D
56716C	INDIAN AFFAIRS BRANCH	ST MARY R	1220	06B	01	03B	357.500	B
56756C	CANADA CEMENT LAFARGE LTD	S THOMSON R	3819	13H	01	02C	500000.000	D
56774C	DYCK JAMES W & PAULINE	MURPHY CR	92.P.092.1	05E	01	03B	200.000	B
56995C	FAIRMONT HOT SPRINGS RESO	COLD SPRING CR	2902A	10C	01	00	134500.000	D
57005C	SCHELLER RONALD N	TEXAS CR	100	02D	01	03B	304.300	B
57005C				02D	02	01A	500.000	D
57020C	B C BUILDINGS CORPORATION	TRANQUILLE R	3885	13J	01	03B	367.500	B
57022C	ROBERTSON HUGH T	S THOMPSON R	3825	13H	01	03B	900.000	B
57030C	CLEARWATER IMPROVEMENT DI	CLEARWATER R	3783A	13G	01	00A	200000.000	D
57050C	INDIAN AFFAIRS BRANCH	CHILCOTIN R	1079	05A	01	03B	1650.000	B
57059C	ETZERZA PAMELA M	FRASER R	93.B.058	26A	01	03B	200.000	B
57060C	SCHALLES CHARLES D & MAXI	FRASER R	93B.048	26A	01	03B	210.000	B
57089C	WEST VANCOUVER DISTRICT O	DICK CR	8101A	29E	01	00A	768000.000	D
57107C	SHERWOOD WATERWORKS LTD	SHAWNIGAN LK	8750J	31C	01	00	125000.000	D
57162C	FRASER LAKE VILLAGE OF	FRASER LK	93.K.006	24E	01	00A	336000.000	D
57163C	VANDERHOOF VILLAGE OF	NECHAKO R	6380	24E	01	00A	1000000.000	D
57242C	SELBY ROGER C & SUSAN F	WEST LITTLE BULL CR	1801	08A	01	03B	250.000	B

WATER LICENCES

Lic.#	Owner	Source	Location	Precinct	#PRP	PRP	QTY	Units
57334C	WYNNDEL IRRIGATION DISTRI	DUCK CR	5177A	18E	::	00A	150000.000	D
57387C	PFLANZ JAMES L & PAULINE	S THOMPSON R	3824	13H	::	03B	240.000	B
57387C				13H	::	01A	1000.000	D
57406C	FLORITTO ORLANDO & SHIRLE	FRASER R	93B.098	26A	::	03B	200.000	B
57408C	PARKSVILLE TOWN OF	ENGLISHMAN R	4809	17A	::	00A	1500000.000	D
57465C	BONNINGTON IMPROVEMENT DI	FALLS CR	5301B	18N	::	00A	150000.000	D
57618C	CLEARWATERS DALE R	N THOMPSON R	3804	13G	::	03B	600.000	B
57669C	MOUNT WADDINGTON REGIONAL	QUATSE LK	92L/12-E(A)	17B	::	00A	131200.000	D
58098C	DICKSON BEATRICE E & GORD	NULKI LK	93.F.100	24E	::	03B	200.000	B
58163C	COLLETT RANCH LTD	COLDWATER R	92.I.016.2.2	21B	::	03B	335.000	B
58166C	BAR H H CATTLE CO LTD	S THOMPSON R	3690C	13D	::	03B	585.500	B
58205C	NORTH SALTSPRING WATERWOR	LAKE MAXWELL	92.B.083.1.4	31C	::	00A	138000.000	D
58227C	LAKE COWICHAN VILLAGE OF	COWICHAN LK	92.C.090.2.1	31A	::	00A	300000.000	D
58229C	LAKE COWICHAN VILLAGE OF	COWICHAN LK	92.C.090.2.1	31A	::	00A	300000.000	D
58254C	PACIFIC RIM	LUSSIER R	1980A	08G	::	03B	312.500	B
58258C	ROYAL ANTLER RANCH	WHITETAIL LK	82K/SE(1-H)	10C	::	03B	225.000	B
58261C	SUSSEX FARMS LTD	W KETTLE R	3124	11E	::	03B	300.000	B
58342C	LAKE COWICHAN VILLAGE OF	COWICHAN LK	92.C.090.2.1	31A	::	00A	240164.000	D
58349C	S J RANCH LTD	OOTSA LK	93F/NW(12-F)	12A	::	03B	260.000	B
58458C	WESTMIN RESOURCES LTD	MYRA CR	92F/NW(12-A)	17C	::	05C	200000.000	D
58495C	EAST KOOTENAY REGIONAL DI	FORSTER CR	82K/NE(9B)	10H	::	00A	750000.000	D
58503C	D L LEE LTD	ISAAC CR	93.B.014	05A	::	03B	200.000	B
58658C	GREGORY NORMAN S & BETTY	BLEEKER CR	92.I.049.4.4	13D	::	03B	200.000	B
58674C	DOUGLAS LAKE CATTLE CO	QUILCHENA CR	6167	21D	::	03B	357.000	B
58706C	SPRINGRIDGE PROPERTIES LT	KOOTENAY R	1223	06B	::	03B	200.000	B
58879C	QUINTETTE COAL LIMITED	TWENTY CR	93.P.005	22A	::	02I	215000.000	D
58881C	QUINTETTE COAL LIMITED	MURRAY R	93I/NW(14G)	22A	::	02B	2210000.000	D
58907C	ALBIETZ KRIS	S.FRENCH BAR RODERICK ETC	92O/SE(1FG)	02J	::	03B	480.000	B
58912C	DOUGLAS LAKE CATTLE CO LT	RESERVOIR LK	92.H.16.E.(3)	21D	::	03B	200.000	B
59053C	RUDIGER CHAROLAIS RANCHES	GASPARD CR	1114	05C	::	03B	765.000	B
59056C	HESKETH DAVID C & BEVERLE	TAURUS CR	3123	11E	::	03B	850.000	B
59075C	WICKLOW WEST HOLDINGS LTD	THOMPSON R	362	02E	::	03B	2850.000	B
59076C	MOONEY GENE W	S FRENCH BAR CR	92O/SE(1G)	02J	::	03B	480.000	B
59097C	COMOX-STRATHCONA REGIONAL	PUNTLEDGE R	4820	17C	:	00A	5479000.000	D
59109C	SHUSWAP LAKE UTILITIES LT	SHUSWAP LK	3841A	13I	::	00	100000.000	D
59111C	STAMER LOGGING LTD	CHU CHUA CR	3644	13B	::	03B	300.000	B
59115C	FORT NELSON VILLAGE OF	MUSKWA R	94.J.087	15	::	00A	550000.000	D
59142C	INDIAN GARDENS RANCH LTD	DURAND CR	3756	13F	::	03B	202.500	B
59154C	COLDSTREAM DISTRICT OF	KALAMALKA LK	8469A &8469B	30C	::	00A	372000.000	D
59159C	PRESTMO JAMES R	CLUCULZ LK	93G.082	24E	::	03B	200.000	B
59253C	OCELOT INVEST LTD OCELOT	KITIMAT R	103I.007	25A	::	02B	3230724.000	D
59299C	ALPHA CREEK WWKS LTD	ALPHA CR	92J.005.4.4	29C	::	00	294500.000	D
59359C	ELKFORD DISTRICT OF	BOIVIN CR	82J/SW(2-D)	08E	::	00A	700000.000	D
59360C	CHAI-NA-TA GINSENG PRODUC	BOTANIE CR	92.1.023.3.3	02C	::	03B	353.300	B
59360C				02C	::	01A	500.000	D
59405C	LIONS BAY VILLAGE OF	MAGNESIA CR	92.G.044.4.2	29E	::	00A	100000.000	D
59413C	WINFIELD RANCH LTD	ELLISON LK	82.E.094.3.3	30C	::	03B	980.000	B
59415C	INDIAN AFFAIRS-OSOYOOS IN	OKANAGAN R	82.E.013.3.2	07A	::	03B	1656.000	B
59424C	WATKINSON FRED	MCGILLIVRAY CR	344	02C	::	03B	221.670	B
59424C				02C	::	01A	1000.000	D
59425C	REUTER WINFRIED & ASTRID	MCGILLIVRAY CR	344	02C	::	03B	221.670	B
59425C				02C	::	01A	1000.000	D
59470C	COMINCO LTD (COPPER DIVIS	QUILTANTON LK	92I/6E(H)	21A	::	05C	2880000.000	D
59508C	FREDRICKSON MEL & ROBERTA	SEVEN MILE CR	104G(14G)	03	::	03B	200.000	B
59533C	NEWMONT MINES LIMITED	SIMILKAMEEN R	6965	23C	::	05C	8000000.000	D
59576C	ERICKSON IMPROVEMENT DIST	GOAT R	5176D	18E	::	00A	134000.000	D
59576C				18E	::	03A	500.000	B
59581C	ELY JAMES M & ROSEMARY	FRASER R	93.B.068	26A	::	03B	240.000	B
59602C	ERICKSON IMPROVEMENT DIST	ARROW CR	5177D	18E	::	03A	1743.500	B
59603C	ERICKSON IMPROVEMENT DIST	ARROW CR	5176B	18E	::	00A	134000.000	D

WATER LICENCES

Lic.#	Owner	Source	Location	Precinct	#PRP	PRP	QTY	Units
59603C				18E	02	03A	510.000	B
59604C	CRESTON TOWN OF	ARROW CR	5177D	18E	01	00A	540000.000	D
59644C	WINFIELD & OKANAGAN CENTR	VERNON CR	82.L.004.1.2	30C	01	03A	500.000	B
59645C	WINFIELD & OKANAGAN CENTR	VERNON CR	82.L.004.1.2	30C	01	00A	375000.000	D
59670C	TOFINO DISTRICT OF	GINNARD CR	92F/4(F)	01A	01	00A	110000.000	D
59672C	TOFINO DISTRICT OF	MEARES CR & CLOSE CR	92.F.011.4.1	01A	01	00A	150000.000	D
59673C	TOFINO DISTRICT OF	NUMBER ONE CR	35	01A	01	00A	115000.000	D
59735C	SUNSHINE COAST REGIONAL D	GRAY CR	92.G.052	29D	01	00A	750000.000	D
59777C	WHISTLER RESORT MUNICIPAL	WHISTLER CR	92J.006.3.3	29C	01	00A	2500000.000	D
59820C	MOILLIET JOHN KEIR & ALIC	N THOMPSON R	3785 & 3786	13G	01	03B	200.000	B
59856C	BRALORNE RESOURCES LIMITE	CADWALLADER CR	92J.076.4.4	02D	01	05C	376918.000	D
59914C	BALMAN-HOOK RANCHES LTD	PORCUPINE CR	920/SE(8D)	02J	01	03B	750.000	B
59922C	CARTWRIGHT ERNEST F & BEV	JOSEPH CR	3805	13G	01	03B	440.000	B
59982C	INVERMERE DISTRICT OF	GOLDIE CR	2962	10H	01	00A	940000.000	D
60025C	PIGHIN ERNEST P	ST MARY R	1223	06B	01	03B	425.000	B
60096C	LLOYD JACK & ANNE	FRASER R	93.B.068.2	26A	01	03B	500.000	B
60106C	SING MEN CHOW	FRASER R	93.B.058.2	26A	01	03B	300.000	B
60123C	100 MILE HOUSE VILLAGE OF	BRIDGE CR	1003	05B	01	00A	100000.000	D
60124C	100 MILE HOUSE VILLAGE OF	BRIDGE CR	1003	05B	01	00A	400000.000	D
60126C	WEST FRASER MILLS LTD	FRASER R	93.B.058	26B	01	02I	240.000	B
60200C	DARITY CARL & BARBARA	BURGER & BURNEY CR	93.M.042	12C	01	03B	220.000	B
60272C	HOWE EVERETT G & JEAN A	PEACE R	94.A.016	22B	01	02B	540000.000	D
60281C	RICHTIK CLAYTON	BONNALIE POND & CR	93G/7-W	24E	01	03B	200.000	B
60281C				24E	02	01A	2000.000	D
60323C	INDIAN AFFAIRS BRANCH-PEN	OKANAGAN R	1550D	07B	01	03B	376.000	B
60373C	PROVINCIAL AGRICULTURAL L	KALAMALKA LK	82.L.014.3.4	30C	01	03B	200.000	B
60415C	BEAUPARK RANCH LTD	WHITEMAN CR	8585	30F	01	03B	200.000	B
60415C				30F	02	01A	2000.000	D
60438C	CENTRAL OKANAGAN REGIONAL	OKANAGAN LK	82.L.013.4.3	30F	01	00A	217500.000	D
60473C	SUTHERLAND CREEK WATERWOR	SUTHERLAND CR	3000E	11A	01	00A	225000.000	D
60489C	CAPITAL REGIONAL DISTRICT	SHINGLE CR	92.B.074.4.3	31C	01	00A	253333.000	D
60503C	KIMBERLEY CITY OF	MATTHEW CR	1346	06G	01	00A	863014.000	D
60542C	HALSEY CHARLES & NANCY	PUTMAN CR	82L/7W(E)	30G	01	03B	240.000	B
60665C	B K RANCH LIMITED PARTNER	FRASER R NORTH ARM	92G/2EF	20F	01	02I	422.000	B
60665C				20F	02	03B	42.000	B
60667C	GIESBRECHT HAROLD P & NAN	BEAVERLEY CR	93.G.076	24E	01	03B	450.000	B
60670C	ROBSON-RASPBERRY IRRIGATI	NORNS CR	5130B	18C	01	00A	100000.000	D
60671C	ROBSON-RASPBERRY IRRIGATI	NORNS CR	5130B	18C	01	00A	270000.000	D
60672C	ROBSON-RASPBERRY IRRIGATI	NORNS CR	5130B	18C	01	03A	403.800	B
60672C				18C	02	01A	30000.000	D
60687C	COATES WALTER & SHIRLEY	SEVEN C'S CR	5100	18A	01	03B	250.000	B
60687C				18A	02	01A	2250.000	D
60713C	TRINITY DAIRIES LTD	TRINITY CR	82L/10W(D)	30G	01	03B	210.000	B
60715C	MILLER FRANKLIN D & LORRA	NICOLA R	92.I.016.1.4	21A	01	03B	396.320	B
60715C				21A	02	01A	2000.000	D
60840C	FAIRMONT HOT SPRINGS RESO	COLD SPRING CR	2902A	10C	01	00	145750.000	D
60859C	TRAIL CITY OF	COLUMBIA R	5278A	18K	01	00A	2250000.000	D
60898C	SUMMERLAND DISTRICT OF	TROUT CR	1600	07C	01	00A	583562.000	D
60898C				07C	02	03A	1500.000	B
60995C	CANADIAN FOREST PRODUCTS	RAINY R & PULP CR	8225C	29C	01	02A	33.000	B
61001C	GREENAWAY LORNE E	THOMPSON R	305	02A	01	03B	414.000	B
61016C	CHU CHUA AGRICULTURE CORP	N THOMPSON R	3638B	13B	01	03B	1000.000	B
61044C	BALMAN HOOK RANCHES LTD	KOSTER CR	275	02J	01	03B	240.000	B
61093C	B C HYDRO & POWER AUTHORI	HAT CR	323	02B	01	03B	255.000	B
61119C	LOON LAKE RANCH LIMITED	BRIGADE CR	92P/3E(H)	02B	01	03B	261.000	B
61137C	LORNEX MINING CORPORATION	BETHSAIDA CR	921/6E(H)	21A	01	05C	861527.000	D
61138C	LORNEX MINING CORPORATION	HIGHMONT CR	921/7W(E)	21A	01	05C	807681.000	D
61233C	TOFINO DISTRICT OF	GINNARD CR	92F/4	01A	01	00A	250000.000	D
61234C	TOFINO DISTRICT OF	SHARP CR	35	01A	01	00A	150000.000	D
61263C	MEADOW VALLEY GUEST RANCH	BIS CR	92.0.076	05A	01	03B	440.000	B

WATER LICENCES

Lic.#	Owner	Source	Location	Precinct	#PRP	PRP	QTY	Units
61318C	SALTAIR WATERWORKS DISTRI	STOCKING LK	4800	17A	01	00A	287671.000	D
61333C	GREATER CAMPBELL RIVER WA	CAMPBELL R	92K/3C	17C	01	00A	3632976.000	D
61385C	INDIAN AGENCY-UCLUELET BA	MERCANTILE CR	92.C.093.3.2	01A	01	00	100000.000	D
61430C	COMOX-STRATHCONA REGIONAL	OYSTER R	92F/14-E	17C	01	00A	300000.000	D
61634C	MAY BROTHERS FARMS LTD	FRASER R NORTH ARM	92G/36H	20F	01	02I	967.000	B
61634C				20F	02	03B	89.000	B
61635C	MAY BROTHERS FARMS LTD	FRASER R NORTH ARM	92G/36H	20F	01	02I	716.000	B
61635C				20F	02	03B	66.000	B
61663C	CHATTERTON PETROCHEMICAL	FRASER R	92G/3-6.H	20F	01	02C	14500000.000	D
61683C	AGRI MANAGEMENT CORP	TASKER ROAD DITCH	92.G.015.2.4	20F	01	02I	443.900	B
61683C				20F	02	03B	40.900	B
61804C	COBB JAMES E	COTTONWOOD CR	82M/SW(46)	13A	01	03B	300.000	B
61904C				13A	02	01A	2500.000	D
61819C	263477 ALBERTA LTD	THOMPSON R	389	02F	01	03B	300.000	B
61920C	BOWGLEN ESTATES LTD	THOMPSON R	389	02F	01	03B	900.000	B
61821C	WALHACHIN RANCHES LTD	THOMPSON R	389	02F	01	03B	300.000	B
61858C	INDIAN AFFAIRS BRANCH-HAR	GABION R	103H/SW.6F	25A	01	00	100000.000	D
61902C	STUMP KURT & HERMINE	LEGERWOOD CR	3863B	13K	01	03B	200.000	B
61939C	EAST KOOTENAY REGIONAL DI	FORSTER CR	82K/NE(9-B)	10H	01	00A	750000.000	D
61951C	ERICKSON GOLD MINING CORP	CALLISON CR	104P(46)	03	01	05C	290000.000	D
61958C	ERICKSON GOLD MINING CORP	ERICKSON CR	104P(46)	03	01	05C	250000.000	D
62051C	FRASERVIEW FARMS LTD	FRASER R	93.B.058	26B	01	03B	300.000	B
62124C	PEACHLAND MUNICIPALITY OF	TREPANIER CR	8493C	30D	01	03B	207.000	B
62306C	VERNON IRRIGATION DISTRIC	KALAMALKA LK	8469A	30C	01	00A	1122500.000	D
62307C	VERNON IRRIGATION DISTRIC	KALAMALKA LK	8469A	30C	01	00A	537500.000	D
62317C	FLEMING PATRICK	HOLBEIN CR	3090	11D	01	03B	200.000	B
62331C	EUROCAN PULP & PAPER CO	KITIMAT R	103.I.007	25A	01	02A	70.000	G
62338C	HAMMACK WAYNE S	PEACE R	93.P.091	24C	01	02B	100000.000	D
62357C	ALUMINUM CO OF CANADA	KITIMAT R	103.I.007	25A	01	02B	50.000	G
62358C	ALUMINUM CO OF CANADA	ANDERSON CR	103.I.007	25A	01	02B	20.000	G
62387C	DICKENSON MINES LTD	MILLER CR	5452	18I	01	05C	150000.000	D
62422C	HIGHLAND VALLEY CATTLE CO	BARNES CR	303	02A	01	03B	456.000	B
62423C	HIGHLAND VALLEY CATTLE CO	BARNES CR	303	02A	01	03B	223.400	B
62425C	BAR M RANCH LTD	BARNES CR	303	02A	01	03B	231.000	B
62425C				02A	02	01A	500.000	D
62426C	BAR M RANCH LTD	BARNES CR	303	02A	01	03B	335.100	B
62450C	RIMER SUSAN	HURST CR & N HURST CR	295B	10H	01	03B	240.000	B
62555C	CENTRAL KOOTENAY REGIONAL	INDIAN CR	5155	18D	01	00A	136986.000	D
62627C	LYTTON VILLAGE OF	THOMPSON R	92.I.023.1.3.1	02I	01	00A	150635.000	D
62691C	TUMBLER RIDGE DISTRICT OF	FLATBED CR	93.P.006	22A	01	00A	1917808.000	D
62775C	PORT HARDY DISTRICT OF	TSULQUATE R	92L/11-E	17B	01	00A	1200000.000	D
62777C	CENTRAL KOOTENAY REGIONAL	LISTER CR	5175G	18E	01	00A	188000.000	D
62778C	CENTRAL KOOTENAY REGIONAL	LISTER CR	5175G	18E	01	00A	350000.000	D
62875C	THORP JOHN H	OKANAGAN R	82.E.013.3.2	07A	01	03B	224.000	B
62953C	KAMLOOPS CITY OF	S THOMPSON R	3691	13D	01	00A	500000.000	D
62972C	K-WEST ESTATES LTD	OKANAGAN LK	82.L.013.2.3	30D	01	02F	250.000	B
62973C	WALHACHIN UTILITY LTD	THOMPSON R	380	02F	01	00	160000.000	D
62974C	CARTER DON & CLAIRE	LALUWISSIN CR & MAHER SPR	344	02C	01	03B	305.580	B
62974C				02C	02	01A	500.000	D
62976C	REUTER WINFRIED G & ASTRI	LALUWISSIN CR	344	02C	01	03B	305.580	B
62976C				02C	02	01A	500.000	D
62978C	FENNELL JAMES A & MARGARE	LALUWISSIN CR	344	02C	01	03B	305.580	B
62978C				02C	02	01A	1500.000	D
62992C	FENNELL JAMES A & MARGARE	LALUWISSIN CR	344	02C	01	03B	294.420	B
63008C	PORT EDWARD VILLAGE OF	WOLF CR	6702A	25C	01	00A	400000.000	D
63019C	LORNEX MINING CORPORATION	THOMPSON R	301	02A	01	05C	3400000.000	D
63020C	LORNEX MINING CORPORATION	THOMPSON R	301	02A	01	05C	4000000.000	D
63031C	K-WEST ESTATES LTD	OKANAGAN LK	82.L.013.2.3	30D	01	02F	253.000	B
63033C	K-WEST ESTATES LTD	SHORTS CR	82.L.013.1.4	30D	01	02F	344.000	B
63033C				30D	02	01A	1000.000	D

WATER LICENCES

Lic.#	Owner	Source	Location	Precinct	#PRP	PRP	QTY	Units
63060C	DEWDNEY-ALOUETTE REGIONAL	DICKSON CR & NORRISH CR	5850	20H	01	00A	5753424.660	D
63515C	PACIFIC RIM WATER RESOURC	MORAN CR	93.D.044	05F	01	02H	266.000	B
1555F	FERNIE CITY OF	FAIRY CR	1834	08B	01	00A	12061370.000	D
1655F	POWELL RIVER DISTRICT OF	POWELL R	92F/NE	29D	01	00A	538454.000	D
1676F	NORTH VANCOUVER CITY OF	RICE LK	8100	29E	01	00A	538454.000	D
3042F	NORTH VANCOUVER DISTRICT	MOSQUITO CR	8100	29E	01	00A	754000.000	D
3077F	GREENWOOD CITY OF	LIND CR	3062B	11C	01	00A	100000.000	D
3119F	MOYIE IMPROVEMENT DISTRIC	GLENCAIRN CR	1360	06D	01	00A	100000.000	D
3133F	GENSTAR CEMENT LTD	BAMBER CR	8751L	31C	01	02B	100000.000	D
3140F	INDIAN AFFAIRS BRANCH-LYT	VITAL,DITCHAM.STGEORGE S	92I02331	02C	01	03B	550.000	B
3140F				02C	02	01A	1000.000	D
3146F	CHRISTIAN RANCH LTD	CACHE CR	310	02B	01	03B	286.000	B
3146F				02B	02	01A	1000.000	D
3237F	B C PACKERS LTD	NAMU LK	92M/NW	05F	01	02B	100000.000	D
3297F	INDIAN AGENCY-FOUNTAIN BA	FOUNTAIN CR	103	02D	01	03B	425.000	B
3495F	IMPERIAL OIL LIMITED	SASAMAT LK	8160A	29E	01	02B	150000.000	D
3530F	CHASE IRRIGATION DISTRICT	CHASE CR	3707C	13D	01	03A	325.000	B
3530F				13D	02	01A	100.000	D
3531F	CHASE IRRIGATION DISTRICT	CHASE CR	3707C	13D	01	03A	366.000	B
3531F				13D	02	01A	1000.000	D
3536F	LANSDALL FREDRICK C	CHASE CR	3707C	13D	01	03B	245.000	B
3536F				13D	02	01A	1000.000	D
3538F	C P R VANCOUVER DIV-NORTH	HALLECKS CR	5950A	20N	01	02B	350000.000	D
3608F	DOUGLAS LAKE CATTLE CO	CHAPPERON CR	6160	21D	01	03B	474.400	B
3609F	DOUGLAS LAKE CATTLE CO	JACK DOUGLAS CR	6160	21D	01	03B	392.000	B
3609F				21D	02	01A	500.000	D
3610F	DOUGLAS LAKE CATTLE CO	RANGE CR	6160	21D	01	03B	264.000	B
3610F				21D	02	01A	500.000	D
3611F	DOUGLAS LAKE CATTLE CO	CHAPPERON CR	6160	21D	01	03B	1360.000	B
3611F				21D	02	01A	5000.000	D
3613F	DOUGLAS LAKE CATTLE CO	CHAPPERON CR	6153	21D	01	03B	911.200	B
3616F	DOUGLAS LAKE CATTLE CO	NICOLA R	6160	21D	01	03B	1030.000	B
3616F				21D	02	01A	2000.000	D
3666F	GARTHWAITE GRETA A	TOM PETER CR	6009	21A	01	03B	434.000	B
3671F	GARTHWAITE GRETA A	MARQUART CR	6009	21A	01	03B	200.000	B
3706F	MCLEOD LIVESTOCK LTD	SALMON R	3735A	13E	01	03B	558.000	B
3706F				13E	02	01A	750.000	D
3727F	IMPERIAL OIL LIMITED	SASAMAT LK	8160A	29E	01	02B	1600000.000	D
3771F	CHUTTER RANCH LTD	NICOLA R	92.I.017.4.1	21B	01	03B	950.000	B
3771F				21B	02	01A	1000.000	D
3793F	CHUTTER RANCH LTD	NICOLA R	92.I.017.4.1	21B	01	03B	600.000	B
3793F				21B	02	01A	500.000	D
3794F	CHUTTER RANCH LTD	NICOLA R	92.I.017.4.1	21B	01	03B	390.000	B
3796F	INDIAN GARDENS RANCH LTD	INDIAN GARDEN CR	3757	13F	01	03B	245.000	B
3796F				13F	02	01A	500.000	D
3826F	INDIAN AGENCY-COOKS FERRY	TWAAL CR	348	02C	01	03B	349.500	B
3826F				02C	02	01A	500 000	D
3829F	B C HYDRO & POWER AUTHORI	MCCORMICK CR	324	02B	01	03B	225.000	B
3829F				02B	02	01A	500.000	D
3830F	B C HYDRO & POWER AUTHORI	ANDERSON CR	324	02B	01	03B	225.000	B
3830F				02B	02	01A	500.000	D
4019F	CADE HELENE L	MAIDEN CR	329	02B	01	03B	276.000	B
4019F				02B	02	01-	1000.000	D
4043F	L K RANCHES LTD	NISKONLITH CR	3826	13H	01	03B	250.000	B
4043F				13H	02	01A	1000.000	D
4044F	MITCHELL ROBERT Y	PETERSON CR	3637C	13B	01	03B	447.500	B
4057F	QUILCHENA CATTLE CO LTD	QUILCHENA CR	6162	21D	01	03B	200.000	B
4057F				21D	02	01A	500.000	D
4058F	QUILCHENA CATTLE CO LTD	QUILCHENA CR	6162	21D	01	03B	244.000	B
4058F				21D	02	01A	5000.000	D

WATER LICENCES

Lic.#	Owner	Source	Location	Precinct	#PRP	PRP	QTY	Units
4059F	QUILCHENA CATTLE CO LTD	QUILCHENA CR	6162	21D	01	03B	370.000	B
4059F				21D	02	01A	500.000	D
4060F	QUILCHENA CATTLE CO LTD	QUILCHENA CR	6162	21D	01	03B	378.000	B
4060F				21D	02	01A	2000.000	D
4076F	BOWDEN DOROTHY J	ROUGH CR	351	02C	01	03B	331.500	B
4077F	BOWDEN DOROTHY J	LOCHORE CR	351	02C	01	03B	331.500	B
4077F				02C	02	01A	500.000	D
4078F	BOWDEN DOROTHY J	CINQUEFOIL CR	351	02C	01	03B	331.500	B
4080F	A M BORIS RANCHES LTD	DIXON CR	3637	13B	01	03B	338.500	B
4080F				13B	02	01A	500.000	D
4170F	CANADIAN IMPERIAL BANK OF	SHINGLE CR	1557	07B	01	03B	214.000	B
4170F				07B	02	01A	500.000	D
4231F	KIRK FOREST PRODUCTS LIMI	SINCLAIR CR	2952A	10H	01	03B	218.000	B
4231F				10H	02	01A	500.000	D
4322F	DANIELSON ARTHUR M	CUTOFF VALLEY CR	333	02B	01	03B	374.500	B
4324F	B C HYDRO & POWER AUTHORI	HAT CR	325	02B	01	03B	360.000	B
4324F				02B	02	01A	1000.000	D
4328F	B C HYDRO & POWER AUTHORI	BONAPARTE R	321	02B	01	03B	663.000	B
4328F				02B	02	01A	1000.000	D
4369F	COLDSTREAM RANCH LTD	DEER CR	8469D	30C	01	00	200000.000	D
4375F	WINFIELD RANCH LTD	VERNON CR	82.L.004.1.1	30C	01	03B	423.000	B
4375F				30C	02	01A	1000.000	D
4376F	WINFIELD RANCH LTD	VERNON CR	82.L.004.1.1	30C	01	03B	383.000	B
4538F	MOONEY GENE W	WARD CR	257	02J	01	03B	206.500	B
4538F				02J	02	01A	1000.000	D
4645F	PROUDFOOT WILLIAM A	PHILLIPPS CR	2010	08H	01	03B	335.000	B
4645F				08H	02	01A	200.000	D
4683F	C & A MINK RANCH LTD	BIG BAR CR	259	02J	01	03B	376.500	B
4684F	C & A MINK RANCH LTD	KOSTERING CR	92P/4W(E)	02J	01	03B	376.500	B
4736F	CHRISTIAN JACK	CACHE CR	92I/14-E	02B	01	03B	212.000	B
4736F				02B	02	01A	1000.000	D
4738F	CHRISTIAN JACK	BATTLE CR	327	02B	01	03B	318.000	B
4752F	SQUAMISH-LILLOOET REGIONA	DICKEY CR	105	02D	01	00A	530000.000	D
4799F	FOUNTAINVIEW FARMS	CINQUEFOIL CR	351	02C	01	03B	229.900	B
4799F				02C	02	01A	500.000	D
4815F	RAVEN ARNE	BOTANIE CR	92I02331	02C	01	03B	311.000	B
4815F				02C	02	01A	1000.000	D
4851F	JONES DAVID C	RILEY CR	101B	02D	01	03B	321.000	B
4911F	G & R ENTERPRISES LTD	RISKE CR S FORK	92.0.086	05A	01	03B	312.000	B
4932F	MOFFAT RANCH CO LTD	ALIX CR	93.B.068.2	26B	01	03B	337.000	B
4932F				26B	02	01A	1000.000	D
4997F	TRAIL CITY OF	GORGE GULCH	82.F.002.3.4	18K	01	00A	200000.000	D
5089F	JAMES CATTLE CO LTD	DOG CR	92.0.070	05C	01	03B	284.000	B
5089F				05C	02	01A	500.000	D
5129F	BALMAN-HOOK RANCHES LTD	KOSTER CR	275	02J	01	03B	227.000	B
5129F				02J	02	01A	1000.000	D
5154F	KAUFMAN ELWOOD A & MARGIE	MCLEESE CR	115B	05D	01	03B	491.000	B
5154F				05D	02	01A	1000.000	D
5217F	STAFFORD WILLIAM H	CHIMNEY CR	1136	05E	01	03B	394.500	B
5217F				05E	02	01A	1000.000	D
5322F	COVERT IRRIGATION DISTRIC	JULY CR	3039A	11B	01	03A	680.000	B
5394F	SION IMPROVEMENT DISTRICT	JULY CR	3039	11B	01	03A	450.000	B
5396F	SION IMPROVEMENT DISTRICT	HARDY CR	3032A	11B	01	03A	231.000	B
5402F	RISKE CREEK RANCHING LTD	TAYLOR CR	92.0.098	05D	01	03B	463.500	B
5402F				05D	02	01A	1000.000	D
5403F	RISKE CREEK RANCHING LTD	RISKE CR	92.0.098	05A	01	03B	283.500	B
5403F				05A	02	01A	1000.000	D
5468F	COPPER BEACH ESTATES LTD	BRITANNIA CR	8229	29C	01	05C	11.200	D
5498F	ONWARD CATTLE CO LTD	SAN JOSE R	1124	05E	01	03B	562.000	B
5498F				05E	02	01A	5000.000	D

WATER LICENCES

Lic.#	Owner	Source	Location	Precinct	#PRP	PRP	QTY	Units
5505F	HINSCHE CLIFFORD & LOIS	KNIFE CR	1124	05E	01	03B	738.000	B
5505F				05E	02	01A	3000.000	D
5557F	BRIDGE CREEK ESTATE LTD	LITTLE BRIDGE CR	1004	05B	01	03B	387.000	B
5557F				05B	02	01A	3000.000	D
5628F	STEFFEN BROS RANCH LTD	STEFFENS CR	6008	21A	01	03B	200.500	B
5628F				21A	02	01A	500.000	D
5819F	RED ROCK FARMS LTD	SALMON R	3736	13E	01	03B	253.500	B
5819F				13E	02	01A	500.000	D
5858F	ASHCROFT RANCH	MEDICINE CR	324	02B	01	03B	361.000	B
5858F				02B	02	01A	1000.000	D
5859F	ASHCROFT RANCH	CORNWALL CR	363	02E	01	03B	361.000	B
5859F				02E	02	01A	1000.000	D
5861F	B C HYDRO & POWER AUTHORI	BONAPARTE R	321	02B	01	03B	202.500	B
5861F				02B	02	01A	5000.000	D
5901F	HUBER MARGARET I	QUILCHENA CR	6162	21D	01	03B	290.000	B
5901F				21D	02	01A	500.000	D
5938F	MUNDALL RAYMOND V/E J	STRYEN CR	92102242	02L	01	03B	263.000	B
5941F	B C HYDRO & POWER AUTHORI	HAT CR	321	02B	01	03B	413.500	B
5941F				02B	02	01A	1500.000	D
5948F	BAUDIN JOSEPH R & TORRESA	SALMON R	3735A	13E	01	03B	215.000	B
5948F				13E	02	01A	500.000	D
6009F	MICHELL NOEL H	PETERSON CR	3751	13F	01	03B	202.000	B
6009F				13F	02	01A	1000.000	D
6040F	DOUGLAS LAKE CATTLE CO	NICOLA R	6160	21D	01	03B	650.000	B
6040F				21D	02	01A	1500.000	D
6123F	WINFIELD RANCH LTD	KELOWNA CR	84279	30A	01	03B	290.000	B
6134F	MOON MELVILLE C S ESTATE	MELDRUM CR	1055	05A	01	03B	345.500	B
6134F				05A	02	01A	1000.000	D
6156F	SOUTH VERNON IRRIGATION D	VERNON CR	92.I.024.1.4	30F	01	03A	310.000	B
6156F				30F	02	01A	5000.000	D
6157F	SOUTH VERNON IRRIGATION D	VERNON CR	8583B	30F	01	03A	223.000	B
6157F				30F	02	01A	5000.000	D
6190F	GERARD GUICHON RANCH	MOORE CR	6154	21D	01	03B	874.000	B
6190F				21D	02	01A	3500.000	D
6192F	GERARD GUICHON RANCH	FROGMOORE CR	92I/7E(6)	21D	01	03B	911.000	B
6192F				21D	02	01A	5000.000	D
6234F	GREGORY NORMAN S & BETTY	JOHN FRANK & BLEEKER CR	3696	13D	01	03B	203.500	B
6234F				13D	02	01A	500.000	D
6250F	FROLEK CATTLE CO LTD	MOORE CR	6153	21D	01	03B	400.000	B
6269F	SUMMERLAND DISTRICT OF	TROUT CR	1600A	07C	01	03A	697.000	B
6269F				07C	02	01A	5000.000	D
6286F	WATT JAMES D	LEONIE CR	3603	13B	01	03B	325.500	B
6286F				13B	02	01A	500.000	D
6341F	WHISPERING PINES RANCH LT	DURAND CR	3755	13F	01	03B	231.000	B
6341F				13F	02	01A	500.000	D
6348F	WHISPERING PINES RANCH LT	GUICHON CR	6014	21A	01	03B	408.000	B
6348F				21A	02	01A	500.000	D
6353F	WHISPERING PINES RANCH LT	DURAND CR	3754	13F	01	03B	247.000	B
6353F				13F	02	01A	500.000	D
6355F	HAGEN ORLANDO M/NEIL O/KE	BONAPARTE R	311	02B	01	03B	538.000	B
6419F	SKY RANCH CATTLE CO LTD	BAMBRICK CR	1086	05A	01	03B	446.000	B
6419F				05A	02	01A	1000.000	D
6457F	SHULUS CATTLE CO LTD	GUICHON CR	92.I.016.4.1	21A	01	03B	566.000	B
6457F				21A	02	01A	500.000	D
6485F	RED ROCK FARMS LTD	SALMON R	3736	13E	01	03B	418.500	B
6485F				13E	02	01A	500.000	D
6497F	QUILCHENA CATTLE CO LTD	NICOLA R	6156	21D	01	03B	435.000	B
6497F				21D	02	01A	5000.000	D
6503F	ONWARD CATTLE CO LTD	SAN JOSE R	1124	05E	01	03B	900.000	B
6587F	GARDNER RANCH LTD	GUICHON CR	92.I.015.2.3	21A	01	03B	213.000	B

WATER LICENCES

Lic.#	Owner	Source	Location	Precinct	#PRP	PRP	QTY	Units
6587F				21A	02	01A	500.000	D
6588F	GARDNER RANCH LTD	STUMBLES CR	92.I.016.2.3	21A	01	03B	213.000	B
6588F				21A	02	01A	500.000	D
6589F	CHILANCOH RANCH LTD	CHILCOTIN R	93.B.012	05A	01	03B	400.000	B
6589F				05A	02	01A	10000.000	D
6659F	COMINCO LTD	BEAVER CR	5327D	18D	01	03B	252.250	B
6659F				18D	02	01A	7500.000	D
6679F	MERVYN DOUGLAS	ALKALI CR	1103	05C	01	03B	997.000	B
6679F				05C	02	01A	2000.000	D
6680F	MERVYN DOUGLAS	ALKALI CR	1103	05C	01	03B	381.000	B
6680F				05C	02	01A	2000.000	D
6639F	R X PROPERTIES LTD	VENABLES CR	361	02E	01	03B	253.000	B
6639F				02E	02	01A	1000.000	D
6900F	WALHACHIN RANCHES INC	BARNES CR	92I/11E	02A	01	03B	643.000	B
6900F				02A	02	01A	1000.000	D
6935F	KEREMEOS IRRIGATION DISTR	KEREMEOS CR	6933B	23B	01	03A	428.000	B
6935F				23B	02	01A	500.000	D
6991F	WINFIELD & OKANAGAN CENTR	SWALWELL LK	8467	30C	01	03A	550.000	B
6991F				30C	02	01A	2000.000	D
7116F	KEREMEOS IRRIGATION DISTR	KEREMEOS CR	6933B	23B	01	03A	420.000	B
7116F				23B	02	01A	5000.000	D
[illegible]	TIMBER FARM LTD	GRAHAM CR	339	02B	01	03B	297.000	B
[illegible]				02B	02	01A	1000.000	D
[illegible]	MOILLIET JOHN K	JONES CR	3785	13G	01	03B	225.000	B
[illegible]	PERRY RANCH LTD	CACHE CR	329	02B	01	03B	358.900	B
7700F	PERRY RANCH LTD	CACHE CR	329	02B	01	03B	331.500	B
7739F	COMINCO LTD	HANNA CR	5278E	18K	01	02B	6139000.000	D
7739F				18K	02	01A	17000.000	D
7791F	COMINCO LTD	HANNA CR	5278E	18K	01	02B	1508000.000	D
7791F				18K	02	01A	4000.000	D
[illegible]	COMINCO LTD	TOPPING CR	5278A	18K	01	02B	6030000.000	D
[illegible]				18K	02	01A	17000.000	D
[illegible]	COMINCO LTD	TOPPING CR	5278A	18K	01	02B	1508000.000	D
[illegible]				18K	02	01A	4000.000	D
[illegible]	BAKKER TED C & MAUREEN A	GUICHON CR	6014	21A	01	03B	282.000	B
[illegible]	BAKKER TED C & MAUREEN A	DURAND CR	3754	13F	01	03B	282.000	B
7426F	BAKKER TED C & MAUREEN A	CHARTRAND CR	6013	21A	01	03B	282.000	B
7630F	GRAND FORKS CITY OF	OVERTON CR	30328	11B	01	00A	325000.000	D
7734F	INDIAN AFFAIRS BRANCH	OREGON JACK CR	361	02E	01	03B	499.000	B
7734F				02E	02	01A	1000.000	D
7735F	INDIAN AFFAIRS BRANCH	HAT CR	325	02E	01	03B	703.000	B
7735F				02E	02	01A	3000.000	D
7736F	INDIAN AFFAIRS BRANCH	OREGON JACK CR	361	02E	01	03B	204.000	B
7736F				02E	02	01A	500.000	D
[illegible]	COLDSTREAM DISTRICT OF	ANTWERP SPRS	84704	30C	01	00A	216000.000	D
[illegible]	ALEXANDER NORMAN J	ROCK CR	1134	05E	01	03B	200.000	B
8020F	WEST VANCOUVER DISTRICT O	BROTHERS CR	8100	29E	01	00A	3016000.000	D
[illegible]	DIAMOND S RANCH LTD	SALLUS CR	250	02J	01	03B	294.000	B
8031F	DIAMOND S RANCH LTD	KEATLEY CR	250	02J	01	03B	294.000	B
8031F				02J	02	01A	1000.000	D
[illegible]	INDIAN AGENCY-LILLODET BA	MCCARTNEY BR & BROWN BR	102	02D	01	03B	214.000	B
[illegible]				02D	02	01A	1000.000	D
8229F	INDIAN AFFAIRS BRANCH	GUICHON CR	92.I.016.4.1	21A	01	03B	1195.000	B
8229F				21A	02	01A	15000.000	D
[illegible]	GREATER VANCOUVER WATER D	SEYMOUR R	92G/7-E	29E	01	00A	45231000.000	D
[illegible]	GREATER VANCOUVER WATER D	CAPILANO R	8100	29E	01	00A	24769000.000	D
8214F	FROLEK CATTLE CO LTD	STUMPLAKE CR	6151	21D	01	03B	282.700	B
8214F				21D	02	01A	1500.000	D
[illegible]	FROLEK CATTLE CO LTD	STUMPLAKE CR	6151	21D	01	03B	232.500	B
8216F				21D	02	01A	1500.000	D

WATER LICENCES

Lic.#	Owner	Source	Location	Precinct	#PRP	PRP	QTY	Units
8817F	FROLEK CATTLE CO LTD	STUMPLAKE CR	6151	21D	01	03B	319.500	B
8817F				21D	02	01A	1500.000	D
8819F	WOOD LAKE IMPROVEMENT DIS	OYAMA CR	8464B	30C	01	03A	1966.750	B
8819F				30C	02	01A	5000.000	D
8825F	GREATER VANCOUVER WATER D	PATON CR	92G/7-E	29E	01	02I	300000.000	D
8825F				29E	02	07B	.500	Q
9002F	INDIAN AFFAIRS BRANCH	SHUTA CR	6000	21A	01	03B	270.000	B
9002F				21A	02	01A	1000.000	D
9093F	INDIAN AGENCY-COLUMBIA LA	WINDERMERE CR	2962A	10H	01	03B	332.500	B
9093F				10H	02	01A	2000.000	D
9111F	DE BOER JOHN & SHARON	MINTON CR		05A	01	03B	432.000	B
9111F				05A	02	01A	1000.000	D
9114F	MULVAHILL WILLIAM W	ROSS CR	93B/SW	26A	01	03B	200.000	B
9242F	VERNON CITY OF	KALAMALKA LK	8469A	30C	01	00A	1700000.000	D
9273F	BROUGHTON WILLIAM D & FRA	CUISSON CR	93.B.068.2	26B	01	03B	263.000	B
9276F	INDIAN AFFAIRS BRANCH	BOTANIE CR	92I02331	02C	01	03B	405.000	B
9276F				02C	02	01A	3000.000	D
9278F	INDIAN AFFAIRS BRANCH	SKOONKA CR	347	02C	01	03B	250.000	B
9278F				02C	02	01A	2000.000	D
9364F	DUNCAN CITY OF	COWICHAN R	8707A	31A	01	00A	270000.000	D
9422F	OOTISCHENIA IMPROVEMENT D	MCPHEE CR	5131D	18C	01	03A	280.000	B
9422F				18C	02	01A	40000.000	D
9507F	POST CATTLE CO LTD	SPIUS CR	92.I.015.2.4	21B	01	03B	200.000	B
9539F	MACMILLAN BLOEDEL & POWEL	POWELL R	92F/NE	29D	01	02A	100.000	Q
9539F				29D	02	07C	3000.000	Q
9549F	DOUGLAS LAKE CATTLE CO	QUILCHENA CR	6167	21D	01	03B	337.400	B
9559F	C 1 RANCH LTD	ALEXIS CR	1082	05A	01	03B	218.000	B
9579F	DEVICKS RANCH LTD	KNOUFF CR	3818	13H	01	03B	705.000	B
9581F	LEAVITT KATHLEEN M	KNOUFF CR	3818	13H	01	03B	310.500	B
9596F	BAYLIFF ANTONY G L	CHILCOTIN R	93.B.002	05A	01	03B	232.500	B
9599F	INDIAN AGENCY-WILLIAMS LA	SODA CR	1157	05D	01	03B	210.600	B
9599F				05D	02	01A	1000.000	D
9600F	QUILCHENA CATTLE CO LTD	NICOLA R	6156	21D	01	03B	200.000	B
9674F	INDIAN AGENCY-FOUNTAIN BA	GIBBS CR	103	02D	01	03B	249.000	B
9758F	INDIAN AFFAIRS BRANCH	MCDOUGALL CR	8492D	30D	01	03B	249.000	B
9758F				30D	02	01A	2500.000	D
9761F	INDIAN AFFAIRS BRANCH	WOLF CUB CR	1511	07A	01	03B	672.000	B
9761F				07A	02	01A	4000.000	D
9762F	INDIAN AFFAIRS BRANCH	SHATFORD CR	1554	07B	01	03B	202.800	B
9762F				07B	02	01A	2000.000	D
9763F	CANADIAN IMPERIAL BANK OF	SHINGLE CR	1557	07B	01	03B	433.000	B
9763F				07B	02	01A	5000.000	D
9768F	INDIAN AFFAIRS BRANCH	IRISH CR	8586	30F	01	03B	234.000	B
9768F				30F	02	01A	5000.000	D
9769F	LAUDER RANCHES LTD	LAUDER CR	6156	21D	01	03B	200.000	B
9805F	INDIAN AFFAIRS BRANCH	OLD TOM CR	6901	23A	01	03B	405.000	B
9805F				23A	02	01A	1000.000	D
9836F	3-S RANCH LTD	CHUCK CR	3786	13G	01	03B	222.000	B
9836F				13G	02	01A	1000.000	D
9848F	INDIAN AFFAIRS BRANCH	ALKALI CR	92O/NE(16-3)	05C	01	03B	360.000	B
9848F				05C	02	01A	2500.000	D
9877F	BALMAN-HOOK RANCHES LTD	LITTLE CHURN CR	275	02J	01	03B	261.750	B
9877F				02J	02	01A	1000.000	D
9960F	B C HYDRO & POWER AUTHORI	BONAPARTE R	321	02B	01	03B	398.100	B
9974F	MOONEY GENE W	RODERICK CR	92O/SE	02J	01	03B	289.500	B
9986F	INDIAN AFFAIRS BRANCH	READ & CAM CRS ET AL	6059	21B	01	03B	316.800	B
9986F				21B	02	01A	3000.000	D
9987F	INDIAN AFFAIRS BRANCH	FOUNTAIN CR	103	02D	01	03B	206.700	B
10007F	ASHCROFT VILLAGE OF	THOMPSON R	304	02A	01	00A	100000.000	D
10207F	INDIAN AFFAIRS BRANCH	RISKE CR	92.O.093	05A	01	03B	2000.000	B

Lic.#	Owner	Source	Location	Precinct	#PRP	PRP	QTY	Units
10207F				05A	02	01A	2000.000	D
10210F	INDIAN AFFAIRS BRANCH	HAT & TWO STREAM CRS ETC	323	02B	01	03B	350.000	B
10210F				02B	02	01A	1500.000	D
10245F	INDIAN AFFAIRS BRANCH	RANCHERIE GULCH ETC	3826	13H	01	03B	4122.000	B
10245F				13H	02	01A	10000.000	D
10275F	G & R ENTERPRISES LTD	WITHROW CR	92.0.086	05A	01	03B	447.000	B
10280F	MOON MELVILLE C S ESTATE	MACKIN CR	93.B.038	05D	01	03B	200.000	B
10431F	INDIAN AGENCY-BRIDGE RIVE	MOON CR	105	02D	01	03B	334.100	B
10431F				02D	02	01A	2000.000	D
10457F	INDIAN AGENCY-WILLIAMS LA	HAWKS CR	1159	05D	01	03B	560.000	B
10457F				05D	02	01A	2000.000	D
10495F	HORSESHOE ESTATES FUND	CAMPBELL CR	3691	13D	01	03B	222.000	B
10495F				13D	02	01A	500.000	D
10505F	INDIAN AFFAIRS BRANCH	DEADMAN R	382	02F	01	03B	718.000	B
10505F				02F	02	01A	5000.000	D
10598F	CLEMITSON JAMES & ROBERT	PRINGLE CR	3735A	13E	01	03B	205.000	B
10703F	KISKANA FARMS LTD	KEREMEOS CR	6933B	23B	01	03B	492.000	B
10703F				23B	02	01A	1000.000	D
10817F	HARPER RANCH LTD	STOBART CR	3819	13H	01	03B	252.000	B
10821F	INDIAN AFFAIRS BRANCH	QUILCHENA CR	6163	21D	01	03B	217.200	B
10822F	INDIAN AFFAIRS BRANCH	NICOLA R	6156	21D	01	03B	475.500	B
10823F	GERARD GUICHON RANCH	PETER HOPE CR	6154	21D	01	03B	212.750	B
10851F	DOUGLAS LAKE CATTLE CO	CHAPPERON CR	6159	21D	01	03B	383.200	B
10853F	INDIAN AFFAIRS BRANCH	SPAHOMIN CR	6165	21D	01	03B	217.000	B
10854F	INDIAN AFFAIRS BRANCH	SPAHOMIN CR	6161	21D	01	03B	2586.200	B
10854F				21D	02	01A	20000.000	D
10894F	INDIAN AFFAIRS BRANCH	S THOMPSON R	3811	13H	01	03B	555.000	B
10930F	INDIAN AGENCY-WILLIAMS LA	BIG CR	92.0.095	05A	01	03B	510.000	B
10931F	INDIAN AGENCY-WILLIAMS LA	MINTON CR		05A	01	03B	510.000	B
11021F	GENSTAR CEMENT LTD	OLIPHANT LK	87516	31C	01	02B	100000.000	D
11227F	INDIAN AGENCY-SHUSWAP BAN	SHUSWAP CR	2953	10H	01	03B	1000.000	B
11227F				10H	02	01A	10000.000	D
11230F	INDIAN AFFAIRS BRANCH	COLDWATER R	6053	21B	01	03B	205.000	B
11233F	REVELSTOKE CITY OF	BRIDGE HAMILTON ETC CR	82.L.100.3.3	27E	01	00A	1000000.000	D
11309F	GREATER VANCOUVER WATER D	CYPRESS CR	8101A	29E	01	00A	635000.000	D
11417F	MACMILLAN BLOEDEL LTD	FULLER LK	8718D	31A	01	02B	500000.000	D
11419F	PEACHLAND MUNICIPALITY OF	TREPANIER CR	9493C	30D	01	03A	240.300	B
11419F				30D	02	01A	5000.000	D
11425F	INDIAN AFFAIRS BRANCH	S THOMPSON R	3811	13H	01	03B	507.000	B
11425F				13H	02	01A	25000.000	D
11510F	INDIAN AFFAIRS BRANCH	N THOMPSON R	3811	13H	01	03B	328.750	B
11660F	INDIAN AFFAIRS BRANCH	WHITEMAN CR	8585	30F	01	03B	409.500	B
11758F	INDIAN AFFAIRS BRANCH	PAUL CR	3815	13H	01	03B	1200.000	B
11760F	HARPER RANCH LTD	PAUL CR	3815	13H	01	03B	1200.000	B
11790F	COMINCO LTD	COLUMBIA R	5278A	18K	01	00	110000.000	D
11790F				18K	02	02B	40760000.000	D
11873F	C I L INCORPORATED	THOMPSON R	304	02A	01	03B	204.000	B
11881F	CRESTON TOWN OF	ARROW CR	5177D	18E	01	00A	539000.000	D
11883F	ERICKSON IMPROVEMENT DIST	ARROW CR	5177D	18E	01	00A	100000.000	D
11925F	VINSULLA IRRIGATION DISTR	KNOUFF CR	3818	13H	01	03A	200.000	B
11927F	COMINCO LTD	MARK CR	1343	06G	01	02C	1000000.000	D
11941F	CLEMITSON JAMES & ROBERT	INGRAM CR	3733	13E	01	03B	359.000	B
11942F	PARKLAND HOLDINGS LTD	SALMON R	3735A	13E	01	03B	417.000	B
11943F	CLEMITSON JAMES & ROBERT	SALMON R	3735A	13E	01	03B	359.000	B
11972F	ALSAGER HOLDINGS LTD	GASPARD CR ET AL	920/NE(10-A,B)	05C	01	03B	3300.000	B
11974F	B C CATTLE CO LTD	CANOE CR	274	02J	01	03B	369.000	B
12023F	COMINCO LTD	HOPE/BEN ETC CR	1343	06G	01	02B	200000.000	D
12110F	GREATER VANCOUVER WATER D	COQUITLAM LK	5793	20E	01	00A	5000000.000	D
12111F	B C HYDRO & POWER AUTHORI	COQUITLAM LK	5793	20E	01	00A	15000000.000	D
12175F	BLACK MOUNTAIN IRRIGATION	SCOTTY CR	8402	30A	01	03A	2225.000	B

WATER LICENCES

Lic.#	Owner	Source	Location	Precinct	#PRP	PRP	QTY	Units
12355F	INDIAN AGENCY-LYTTON	NEPUCHEEN CR	92I/5E	02L	01	03B	202.500	B
12395F	KIMBERLEY CITY OF	MARK CR	1343	06G	01	00A	1075000.000	D
12396F	COMINCO LTD	MARK CR	1343	06G	01	00	250000.000	D
12419F	CHASE IRRIGATION DISTRICT	CHASE CR	3707C	13D	01	03A	865.000	B
12821F	MORRISON RANCHES LTD	MEADOW CR	6015	21A	01	03B	268.500	B
12997F	CONLIN PERRY N	BOUNDARY CR	3063	11C	01	03B	245.000	B
12997F				11C	02	01A	1000.000	D
13125F	CENTRAL PARK ENTERPRISES	KELOWNA CR	8421A	30A	01	03B	229.400	B
13130F	INDIAN AFFAIRS BRANCH	DEEP CR	82L.034.3.2	30F	01	03B	417.600	B
13168F	CULTUS LAKE PARK BOARD	WELLS CR & FIN CR	5732B	20C	01	00A	202000.000	D
13336F	WYLLIE COLETTE	KIRK LK & KIRK CR	92.F.078.1.3	29B	01	05C	100000.000	D
13486F	NELSON CITY OF	ANDERSON CR & FELL CR	5226B	18H	01	00A	1500000.000	D
13682F	SUNNY VALLEY ORCHARDS LTD	SIMILKAMEEN R	6930	23B	01	03B	228.000	B
13839F	DESMOND JOHN M & THOMAS F	SALMON R	3735A	13E	01	03B	206.400	B
13840F	JONES ROBERT H	SALMON R	3735A	13E	01	03B	250.200	B
13852F	SPELLER DANIEL & SANDRA &	MONTE CR	3704	13D	01	03B	207.900	B
13872F	CUMBERLAND VILLAGE OF	CUMBERLAND CR	92F/11E	17C	01	00A	750000.000	D
13892F	C 1 RANCH LTD	ALEXIS CR	1082	05A	01	03B	246.000	B
14197F	TRAIL CITY OF	COLUMBIA R	5278A	18K	01	00A	1500000.000	D
14226F	DUTCH DAIRY HOLDINGS LTD	JAMIESON CR	3822	13H	01	03B	382.500	B
14282F	FRASER VALLEY MILK PRODUC	MACCRIMMON CR ETC	5700E	20A	01	02C	1000000.000	D
14283F	FRASER VALLEY MILK PRODUC	LUCKAKUCK CR	5731E	20C	01	02C	1000000.000	D
14356F	MEADOW VALLEY IRRIGATION	DARKE CR	1603	07C	01	03A	225.000	B
14526F	WICKLOW WEST HOLDINGS LTD	STUMPLAKE CR	6150	21D	01	03B	215.800	B
14533F	STIRRUP RANCH LTD	TWAN CR	93.B.057	26A	01	03B	536.000	B
14558F	MASCOT GOLD MINES LIMITED	HEDLEY CR	6903	23A	01	05C	926908.000	D
14680F	SILVERTON VILLAGE OF	BARTLETT CR	5502	18M	01	00A	100000.000	D
14924F	MARSHALL REXFORD SAMUEL	OKANAGAN LK	82.L.013.2.1	30C	01	03B	211.250	B
14924F				30C	02	01A	500.000	D
15510F	INDIAN AFFAIRS BRANCH	EQUESIS CR	8591	30F	01	03B	672.000	B
15510F				30F	02	01A	2000.000	D
15511F	INDIAN AFFAIRS BRANCH	EQUESIS CR	8591	30F	01	03B	1221.000	B
15564F	CROWN FOREST INDUSTRIES L	CAMPBELL R	92.K.004.2.3	17D	01	02A	25.000	D
15595F	WARFIELD VILLAGE OF	COLUMBIA R	5278A	18K	01	00A	200000.000	D
15598F	HYDRA ESTATES LIMITED	GIROUARD CR	8582S	30F	01	02B	200000.000	D
15833F	WINFIELD RANCH LTD	KELOWNA CR	82.E.094.3.3	30A	01	03B	276.250	B
15912F	CHILLIWACK DISTRICT OF	ELK CR	5730H	20C	01	00A	3000000.000	D
15913F	CHILLIWACK DISTRICT OF	NEVIN CR	92.H.012.3.1	20C	01	00A	1000000.000	D
15914F	CHILLIWACK DISTRICT OF	DUNVILLE CR	92.H.012.3.1	20C	01	00A	700000.000	D
16127F	RIVERVALE IMPROVEMENT DIS	HANNA CR	5278E	18K	01	00A	100000.000	D
16214F	PRINGLE PHILLIP A	SALMON R	3735A	13E	01	03B	267.000	B
16302F	SNOWCREST PACKERS LTD	COOPERATIVE CR & UNION CR	5700E-1	20A	01	02B	100000.000	D
16303F	HEDLEY IMPROVEMENT DISTRI	HEDLEY CR	6903	23A	01	00A	150000.000	D
16309F	B C FOREST PRODUCTS LTD	COWICHAN LK	8726	31A	01	02B	23.300	D
16410F	FRUITVALE WATERWORKS DIST	KELLY CR	5327C	18D	01	00A	200000.000	D
16458F	ASHCROFT RANCH	HAT CR	326	02B	01	03B	388.000	B
16459F	ASHCROFT RANCH	OREGON JACK CR	362	02E	01	03B	388.000	B
16488F	COMINCO LTD	ST MARY R	1341	06G	01	02B	16.000	D
16532F	DAVID MINERALS LTD	SHEEP CR	82F/3E	18F	01	05E	600000.000	D
16717F	GREATER VANCOUVER WATER D	COQUITLAM LK	5793	20E	01	00A	30000000.000	D
16875F	WALHACHIN RANCHES INC	UPPER RANCH CR	92I/10W(E)	13F	01	03B	204.000	B
17316F	HANNA STUART & CAROLINE	NICOLA R	92.I.016.2.2	21A	01	03B	207.500	B
17324F	SCHMUNK RICHARD R	KETTLE R	3031	11B	01	03B	277.250	B
17346F	WESTERN PULP INC-SQUAMISH	HENRIETTE LK	8237	29C	01	02A	11.250	D
17347F	WESTERN PULP INC-SQUAMISH	MILL CR	8237	29C	01	02A	22.250	D
17348F	WESTERN PULP INC-SQUAMISH	HENRIETTE LK	8237	29C	01	02A	12.000	D
17466F	T.A.L. DEVELOPMENTS LTD	ASHBURNHAM CR	8726	31A	01	02B	500000.000	D
17518F	VERNON IRRIGATION DISTRIC	B (CR	8582B	30F	01	03A	1220.000	B
17562F	OCEAN FALLS CORPORATION	LINK R	93.D.032	05F	01	00	310000.000	D
17765F	NED'S CREEK RANCH LTD	NEDS CR	3705	13D	01	03B	232.500	B

WATER LICENCES

Lic.#	Owner	Source	Location	Precinct	#PRP	PRP	QTY	Units
18000F	UNION BAY WATERWORKS DIST	HART CR	92.F.056.4.3	17C	01	00A	2154000.000	D
18289F	ROBERTSON HUGH T	S THOMPSON R	3825	13H	01	03B	450.000	B
18630F	FRASER VALLEY MILK PRODUC	LUCKAKUCK CR	5731E	20C	01	02B	500000.000	D
18891F	HAWKE JESSE W & RUTH A	NORBURY CR	1931	08A	01	03B	210.000	B
19036F	DOUGLAS LAKE CATTLE CO	FRANK WARD CR	6159	21D	01	03B	600.000	B
19136F	NED'S CREEK RANCH LTD	S THOMPSON R	3705	13D	01	03B	232.500	B
19274F	DOUGLAS LAKE CATTLE CO	FRANK WARD CR	6159	21D	01	03B	409.000	B
19385F	MACMILLAN BLOEDEL LTD-HAR	NANAIMO R	4805B	17A	01	02A	40.000	Q
19386F	MACMILLAN BLOEDEL LTD-HAR	HASLAM CR	4805B	17A	01	02A	35.000	Q
19387F	MACMILLAN BLOEDEL LTD-HAR	NANAIMO R	4805B	17A	01	02A	60.000	Q
19705F	BLACK SAGE IRRIGATION DIS	OKANAGAN R	82.E.013.1.3	07A	01	03A	500.000	B
19809F	WINFIELD & OKANAGAN CENTR	VERNON CR	82.L.004.1.2	30C	01	00A	100000.000	D
19809F				30C	02	03A	4151.750	B
19917F	B C BUILDINGS CORPORATION	HATCHERY CR	332A	02B	01	02E	500000.000	D
20035F	INDIAN AFFAIRS BRANCH	N THOMPSON R	3823	13H	01	03B	1892.500	B
20544F	COMINCO LTD	ST MARY R	1341	06G	01	02B	16.000	Q
20617F	NORTHWOOD PROPERTIES LTD	OKANAGAN R	1550C	07B	01	02C	320000.000	D
20618F	NORTHWOOD PROPERTIES LTD	OKANAGAN R	1550C	07B	01	02E	320000.000	D
20765F	DAWSON ORCHARDS LTD	SIMILKAMEEN R	6932D	23B	01	03B	200.000	B
20912F	BLACKWELL ARTHUR C & EDWA	CAMPBELL CR	3691	13D	01	03B	276.750	B
20921F	SINGH SARGIT ESTATE OF	NICOMEKL R	92.G.007.3.3	20D	01	03B	250.000	B
21061F	PACIFIC VINEYARDS (1975)	OKANAGAN R	82.E.003.3.4	07A	01	03B	800.000	B
21061F				07A	02	01A	500.000	D
21212F	MACMILLAN BLOEDEL LTD-HAR	NANAIMO R	4805B	17A	01	02A	25.000	Q
21623F	GREATER VICTORIA WATER DI	SOOKE R MARY VINE CR ETA	92.B.042.2.1	31B	01	00A	45000000.000	D
21626F	GREATER VICTORIA WATER DI	AYUM CR	92.B.042.2.2	31B	01	00A	300000.000	D
21627F	GREATER VICTORIA WATER DI	COUNCIL CR	8797	31B	01	00A	3000000.000	D
21629F	CAPITAL REGIONAL DISTRICT	ELK LK & BEAVER LK	8793C	31B	01	00A	416500.000	D
21630F	GREATER VICTORIA WATER DI	GOLDSTREAM R & WAUGH CR	92.B.043.3.1	31B	01	00A	45000000.000	D
38582F	SHAW DONALD MORDEN CHOATE	LOUIS CR	3632	13B	01	03B	225.000	B
38638F	WESTVALE FOODS-DIV OF E C	D'HERBOMEZ CR	5880D	20I	01	02C	500000.000	D
38735F	RIVERLAND ESTATES LTD	S THOMPSON R	3824	13H	01	03B	280.200	B
40252F	OYAMA IRRIGATION DISTRICT	WOOD LK & KALAMALKA LK	82.L.014.1.1	30C	01	03A	277.740	B
42545F	PARKLAND HOLDINGS LTD	INGRAM CR	3733	13E	01	03B	234.000	B
42563F	PROVINCIAL AGRICULTURAL L	SKOOKUMCHUCK CR	82.G.092	06F	01	03B	200.000	B
42951F	JACK K DOUGLAS	ROBBINS CR	3690	13D	01	03B	204.400	B
42951F				13D	02	01A	500.000	D
43167F	OCEAN FALLS CORPORATION	LINK R	93.D.032	05F	01	02A	90.000	Q
44634F	FRASER DONALD P	DONALD CR	3632	13B	01	03B	200.000	B
44634F				13B	02	01A	1000.000	D
44730F	QUILCHENA CATTLE CO LTD	QUILCHENA CR	6162	21D	01	03B	290.900	B
44735F	HAROLD SMITH LTD	FRASER R	102A	02D	01	03B	208.500	B
44750F	UNIVERSITY RESEARCH FARM	OYSTER R	92F/14E	17C	01	03B	300.000	B
45463F	GAMBLE HOLDINGS LTD	ANDERSON CR	3698	13D	01	03B	207.400	B
45464F	GAMBLE HOLDINGS LTD	PETERSON CR	3730	13F	01	03B	207.400	B
45464F				13F	02	01A	500.000	D
46057F	GRAFE GLEN A & SONDRA K	BRIDGE CR	1001	05B	01	03B	305.000	B
46057F				05B	02	01A	2000.000	D
46066F	BENEDICT RANCH LTD	WILSON SLOUGH	3733	13E	01	03B	280.000	B
46067F	WALHACHIN RANCHES INC	THOMPSON R	92I/10W(E)	13F	01	03B	642.000	B
46738F	ROBBINS KEITH J	FRANCIS SPR	3730	13E	01	03B	220.000	B
47365F	MCINTYRE BLUFF RANCH	OKANAGAN R	82.E.023.3.2	07A	01	03B	223.200	B
47571F	GARTHWAITE GRETA A	NICOLA R	6052B	21B	01	03B	230.200	B
47395F	HAROLD SMITH LTD	FRASER R	102A	02D	01	03B	562.200	B
47908F	COVERT GEORGE	OKANAGAN R	82.E.023.1.4	07A	01	03B	1100.000	B
47909F	COVERT GEORGE	OKANAGAN R	82.E.023.1.4	07A	01	03B	240.000	B
48693F	HIGHLAND VALLEY CATTLE CO	BARNES CR	303	02A	01	03B	246.000	B
49498F	MEL-BAR RANCHES LTD	LOUIS CR	3633	13B	01	03B	565.400	B
49513F	BUSNARDO JOSEPH	OKANAGAN R OLD CHANNEL	82.E.013.1.3	07A	01	03B	237.900	B
49853F	BAR H H CATTLE CO LTD	S THOMPSON R	3690C	13D	01	03B	240.000	B

WATER LICENCES

Lic.#	Owner	Source	Location	Precinct	#PRP	PRP	QTY	Units
49854F	RIO VISTA RANCH LTD	S THOMPSON R	3690C	13D	01	03B	360.000	B
50901F	SHANNON VINEYARDS	OKANAGAN R	82.E.013.1.1	07A	01	03B	474.400	B
50904F	SHANNON VINEYARDS	OKANAGAN R	82.E.013.1.1	07A	01	03B	516.120	B
51114F	PENDERGRAFT THEODORE W &	OKANAGAN R OLD CHANNEL	82.E.003.3.4	07A	01	03B	233.500	B
51142F	CIRCLE 7 RANCHES LTD	BONAPARTE R	311	02B	01	03B	310.800	B
51264F	MCNASHEE VINEYARDS LTD	OKANAGAN R	82.E.013.1.1	07A	01	03B	920.400	B
52909F	STAR ANCHOR RANCH LTD	KETTLE R	3091	11D	01	03B	270.000	B
52913F	BUBAR STANLEY	KETTLE R	3090	11D	01	03B	436.800	B
52992F	RIO VISTA RANCH LTD	MONTE CR	3690	13D	01	03B	307.200	B
53268F	STIRLING WILLIAM	NICOLA R	92.I.016.1.3	21A	01	03B	309.000	B
54139F	SMITH MCNEIL J T	KETTLE R	3092	11D	01	03B	375.000	B
55747F	MANN RICHARD H & AUDREY L	KETTLE R	3030B	11B	01	03B	258.000	B
55759F	ADVANCE ORCHARD CO LTD	KETTLE R	3030B	11B	01	03B	388.000	B
56461F	BASQUE RANCH LTD	KETTLE R	3091	11D	01	03B	214.200	B
56663F	MIEDEMA BOUWE A & GERTRUD	TRINITY CR	8527	30G	01	03B	200.000	B
56860F	CURTIS GEORGE EDWARD	PARKINSON LK	8573	30F	01	03B	218.000	B
57135F	BACH DANIEL J & RITA S	CREIGHTON CR	8436	30B	01	03B	318.750	B
57135F				30B	02	01A	1000.000	D
57152F	BICK JON E & JULIE-MARIE	KETTLE R	3090	11D	01	03B	705.000	B
58259F	ERICSON CHARLES M	KETTLE R	3090	11D	01	03B	411.000	B
59228F	COMINCO LTD	MURPHY CR	5282A	18K	01	02F	281.000	B
60741F	MACMILLAN BLOEDEL LTD-CAN	FRASER R NORTH ARM	8230	29F	01	02B	12000000.000	D
60742F	B C FOREST PRODUCTS LTD	FRASER R	92.G.027.2.2	20J	01	02B	10.200	B

WATER LICENCES

Lic.#	Owner	Source	Location	Precinct#	PRP	PRP	QTY	Units
59856C	BRALORNE RESOURCES LIMITE	CADWALLADER CR	92J.076.4.4	02D	1	05C	376918.000	D
59914C	BALMAN-HOOK RANCHES LTD	PORCUPINE CR	920/SE(8D)	02J	1	03B	750.000	B
59922C	CARTWRIGHT ERNEST F & BEV	JOSEPH CR	3805	13G	1	03B	440.000	B
59982C	INVERMERE DISTRICT OF	GOLDIE CR	2962	10H	1	00A	840000.000	D
60025C	PIGHIN ERNEST P	ST MARY R	1223	06B	1	03B	425.000	B
60096C	LLOYD JACK & ANNE	FRASER R	93.B.068.2	26A	1	03B	500.000	B
60106C	SING MEN CHOW	FRASER R	93.B.058.2	26A	1	03B	300.000	B
60123C	100 MILE HOUSE VILLAGE OF	BRIDGE CR	1003	05B	1	00A	100000.000	D
60124C	100 MILE HOUSE VILLAGE OF	BRIDGE CR	1003	05B	1	00A	400000.000	D
60126C	WEST FRASER MILLS LTD	FRASER R	93.B.058	26B	1	02I	240.000	B
60200C	DARITY CARL & BARBARA	BURGER & BURNEY CR	93.M.042	12C	1	03B	220.000	B
60272C	HOWE EVERETT G & JEAN A	PEACE R	94.A.016	22B	1	02B	540000.000	D
60281C	RICHTIK CLAYTON	BONNALIE POND & CR	93G/7-W	24E	1	03B	200.000	B
60323C	INDIAN AFFAIRS BRANCH-PEN	OKANAGAN R	15500	07B	1	03B	376.000	B
60373C	PROVINCIAL AGRICULTURAL L	KALAMALKA LK	82.L.014.3.4	30C	1	03B	200.000	B
60415C	BEAUPARK RANCH LTD	WHITEMAN CR	8585	30F	1	03B	200.000	B
60438C	CENTRAL OKANAGAN REGIONAL	OKANAGAN LK	82.L.013.4.3	30F	1	00A	219500.000	D
60473C	SUTHERLAND CREEK WATERWOR	SUTHERLAND CR	3000E	11A	1	00A	225000.000	D
60489C	CAPITAL REGIONAL DISTRICT	SHINGLE CR	92.B.074.4.3	31C	1	00A	253333.000	D
60503C	KIMBERLEY CITY OF	MATTHEW CR	1346	06G	1	00A	863014.000	D
60542C	HALSEY CHARLES & NANCY	PUTMAN CR	82L/7W(E)	30G	1	03B	240.000	B
60665C	B K RANCH LIMITED PARTNER	FRASER R NORTH ARM	92G/2EF	20F	1	02I	422.000	B
60665C				20F	2	03B	42.000	B
60667C	GIESBRECHT HAROLD P & NAN	BEAVERLEY CR	93.G.076	24E	1	03B	450.000	B
60670C	ROBSON-RASPBERRY IRRIGATI	NORNS CR	5130B	18C	1	00A	100000.000	D
60671C	ROBSON-RASPBERRY IRRIGATI	NORNS CR	5130B	18C	1	00A	270000.000	D
60672C	ROBSON-RASPBERRY IRRIGATI	NORNS CR	5130B	18C	1	03A	403.800	B
60687C	COATES WALTER & SHIRLEY	SEVEN C'S CR	5100	18A	1	03B	250.000	B
60713C	TRINITY DAIRIES LTD	TRINITY CR	82L/10W(D)	30G	1	03B	210.000	B
60715C	MILLER FRANKLIN D & LORRA	NICOLA R	92.I.016.1.4	21A	1	03B	396.320	B
60741F	MACMILLAN BLOEDEL LTD-CAN	FRASER R NORTH ARM	8280	29F	1	02B	12000000.000	D
60742F	B C FOREST PRODUCTS LTD	FRASER R	92.G.027.2.2	20J	1	02B	10.200	Q
60840C	FAIRMONT HOT SPRINGS RESO	COLD SPRING CR	2902A	10C	1	00	145750.000	D
60859C	TRAIL CITY OF	COLUMBIA R	5278A	18K	1	00A	2250000.000	D
60898C	SUMMERLAND DISTRICT OF	TROUT CR	1600	07C	1	00A	583562.000	D
60898C				07C	2	03A	1500.000	B
60995C	CANADIAN FOREST PRODUCTS	RAINY R & PULP CR	8225C	29C	1	02A	33.000	Q
61001C	GREENAWAY LORNE E	THOMPSON R	305	02A	1	03B	414.000	B
61016C	CHU CHUA AGRICULTURE CORP	N THOMPSON R	3638B	13B	1	03B	1000.000	B
61044C	BALMAN HOOK RANCHES LTD	KOSTER CR	275	02J	1	03B	240.000	B
61093C	B C HYDRO & POWER AUTHORI	HAT CR	323	02B	1	03B	255.000	B
61110C	GARTHWAITE GRETA A	NICOLA R	6052B	21B		03B	100.200	B
61111C	GARTHWAITE GRETA A	NICOLA R	6052B	21B		03B	130.000	B
61119C	LOON LAKE RANCH LIMITED	BRIGADE CR	92P/3E(H)	02B	1	03B	261.000	B
61137C	LORNEX MINING CORPORATION	BETHSAIDA CR	921/6E(H)	21A	1	05C	861527.000	D
61138C	LORNEX MINING CORPORATION	HIGHMONT CR	921/7W(E)	21A	1	05C	807681.000	D
61233C	TOFINO DISTRICT OF	GINNARD CR	92F/4	01A	1	00A	250000.000	D
61234C	TOFINO DISTRICT OF	SHARP CR	35	01A	1	00A	150000.000	D
61263C	MEADOW VALLEY GUEST RANCH	BIG CR	92.0.076	05A	1	03B	440.000	B

WATER LICENCES

Lic.#	Owner	Source	Location	Precinct#	PRP	PRP	QTY	Units
61318C	SALTAIR WATERWORKS DISTRI	STOCKING LK	4800	17A	1	00A	287671.000	D
61333C	GREATER CAMPBELL RIVER WA	CAMPBELL R	92K/3C	17C	1	00A	3632876.000	D
61385C	INDIAN AGENCY-UCLUELET BA	MERCANTILE CR	92.C.093.3.2	01A	1	00	100000.000	D
61430C	COMOX-STRATHCONA REGIONAL	OYSTER R	92F/14-E	17C	1	00A	300000.000	D
61634C	MAY BROTHERS FARMS LTD	FRASER R NORTH ARM	92G/3GH	20F	1	02I	967.000	B
61634C				20F	2	03B	89.000	B
61635C	MAY BROTHERS FARMS LTD	FRASER R NORTH ARM	92G/3GH	20F	1	02I	716.000	B
61635C				20F	2	03B	66.000	B
61663C	CHATTERTON PETROCHEMICAL	FRASER R	92G/3-G,H	20F	1	02C	14500000.000	D
61683C	AGRI MANAGEMENT CORP	TASKER ROAD DITCH	92.G.015.2.4	20F	1	02I	443.900	B
61683C				20F	2	03B	40.900	B
61755C	RICHBERRY FARMS LTD	FRASER R NORTH ARM	92G/3GH	20F		02I	286.400	B
61756C	JAGBAR FARMS LTD	FRASER R NORTH ARM	92G/3GH	20F		02I	100.240	B
61784C	MCLEOD CREEK RANCH LTD	MCLEOD CR	92.J.046.3.4	20H		03B	290.000	B
61804C	COBB JAMES E	COTTONWOOD CR	82M/SW(46)	13A	1	03B	300.000	B
61819C	265477 ALBERTA LTD	THOMPSON R	389	02F	1	03B	300.000	B
61820C	BOWGLEN ESTATES LTD	THOMPSON R	389	02F	1	03B	900.000	B
61821C	WALHACHIN RANCHES LTD	THOMPSON R	389	02F	1	03B	300.000	B
61858C	INDIAN AFFAIRS BRANCH-HAR	GABION R	103H/SW.6F	25A	1	00	100000.000	D
61902C	STUMP KURT & HERMINE	LEGERWOOD CR	3863B	13K	1	03B	200.000	B
61939C	EAST KOOTENAY REGIONAL DI	FORSTER CR	82K/NE(9-B)	10H	1	00A	750000.000	D
61951C	ERICKSON GOLD MINING CORP	CALLISON CR	104P(4G)	03	1	05C	290000.000	D
61958C	ERICKSON GOLD MINING CORP	ERICKSON CR	104P(4G)	03	1	05C	250000.000	D
62030C	NEALIS DENNIS & VICKI	MOLLICE LK	93.F.092	12A		03B	120.000	B
62047C	QUEENSTAKE RESOURCES LTD	PINE CR	104N112E	03		05D	4.000	Q
62051C	FRASERVIEW FARMS LTD	FRASER R	93.B.058	26B	1	03B	300.000	B
62075C	MULHOLLAND DAN	CLINTON CR	333	02B		03B	247.800	B
62124C	PEACHLAND MUNICIPALITY OF	TREPANIER CR	8493C	30D	1	03A	207.000	B
62306C	VERNON IRRIGATION DISTRIC	KALAMALKA LK	8469A	30C	1	00A	1122500.000	D
62307C	VERNON IRRIGATION DISTRIC	KALAMALKA LK	8469A	30C	1	00A	587500.000	D
62317C	FLEMING PATRICK	HOLBEIN CR	3090	11D	1	03B	200.000	B
62331C	EUROCAN PULP & PAPER CO	KITIMAT R	103.I.007	25A	1	02A	70.000	Q
62338C	HAMMACK WAYNE S	PEACE R	93.P.091	24C	1	02B	100000.000	D
62357C	ALUMINUM CO OF CANADA	KITIMAT R	103.I.007	25A	1	02B	50.000	Q
62358C	ALUMINUM CO OF CANADA	ANDERSON CR	103.I.007	25A	1	02B	20.000	Q
62387C	DICKENSON MINES LTD	MILLER CR	5452	18I	1	05C	150000.000	D
62422C	HIGHLAND VALLEY CATTLE CO	BARNES CR	303	02A	1	03B	456.000	B
62423C	HIGHLAND VALLEY CATTLE CO	BARNES CR	303	02A	1	03B	223.400	B
62425C	BAR M RANCH LTD	BARNES CR	303	02A	1	03B	231.000	B
62426C	BAR M RANCH LTD	BARNES CR	303	02A	1	03B	335.100	B
62450C	RIMER SUSAN	HURST CR & N HURST CR	2958	10H	1	03B	240.000	B
62555C	CENTRAL KOOTENAY REGIONAL	INDIAN CR	5155	18D	1	00A	136986.000	D
62627C	LYTTON VILLAGE OF	THOMPSON R	92.I.023.1.3.1	02I	1	00A	150685.000	D
62691C	TUMBLER RIDGE DISTRICT OF	FLATBED CR	93.P.006	22A	1	00A	1917808.000	D
62775C	PORT HARDY DISTRICT OF	TSULQUATE R	92L/11-E	17B	1	00A	1200000.000	D
62777C	CENTRAL KOOTENAY REGIONAL	LISTER CR	5175G	18E	1	00A	188000.000	D
62778C	CENTRAL KOOTENAY REGIONAL	LISTER CR	5175G	18E	1	00A	350000.000	D
62843C	FILLMORE CLIFFORD I & KEV	FIVA CR	3121	11E		03B	120.000	B
62875C	THORP JOHN H	OKANAGAN R	82.E.013.3.2	07A	1	03B	224.000	B
62953C	KAMLOOPS CITY OF	S THOMPSON R	3691	13D	1	00A	500000.000	D
62972C	K-WEST ESTATES LTD	OKANAGAN LK	82.L.013.2.3	30D	1	02F	250.000	B
62973C	WALHACHIN UTILITY LTD	THOMPSON R	380	02F	1	00	160000.000	D

WATER LICENCES

Lic.#	Owner	Source	Location	Precinct#	PRP	PRP	QTY	Units
62974C	CARTER DON & CLAIRE	LALUWISSIN CR & MAHER	344	02C	1	03B	305.580	B
62976C	REUTER WINFRIED G & ASTRI	LALUWISSIN CR	344	02C	1	03B	305.580	B
62978C	FENNELL JAMES A & MARGARE	LALUWISSIN CR	344	02C	1	03B	305.580	B
62982C	FENNELL JAMES A & MARGARE	LALUWISSIN CR	344	02C	1	03B	294.420	B
63008C	PORT EDWARD VILLAGE OF	WOLF CR	6702A	25C	1	00A	400000.000	D
63018C	LORNEX MINING CORPORATION	THOMPSON R	301	02A	1	05C	3400000.000	D
63020C	LORNEX MINING CORPORATION	THOMPSON R	301	02A	1	05C	4000000.000	D
63031C	K-WEST ESTATES LTD	OKANAGAN LK	82.L.013.2.3	300	1	02F	258.000	B
63031C	LANCER FINANCIAL CORPORAT	OKANAGAN LK	82.L.013.2.3	300		02F	258.000	S
63033C	K-WEST ESTATES LTD	SHORTS CR	82.L.013.1.4	300	1	02F	344.000	B
63033C	LANCER FINANCIAL CORPORAT	SHORTS CR	82.L.013.1.4	300		02F	344.000	B
63040C	LEHMAN STEPHEN A	SECOND CR	256	02J		03B	150.000	B
63060C	DEWDNEY-ALOUETTE REGIONAL	DICKSON CR & NORRISH C	5850	20H	1	00A	5753424.660	D
63105C	BROOKS LESLIE V	LUKE CR	1340	06G		03B	287.300	B
63242C	DODSWORTH CHARLES/MYRA/ST	MADONNA SPRS	93 B 095	26A		02E	.460	Q
63260C	BRIDGE CREEK ESTATE LTD	LITTLE BRIDGE CR	1003	05B		03B	323.000	B
63375C	FISHERIES & OCEANS DEPART	ATNARKO R	93.D.040	05F		02E	25.000	Q
63390C	MAGNUSON FRED & JANICE	FRASER R	93.B.088	26B		03B	450.000	B
63479F	INDIAN AFFAIRS (981-603-7	WILLIE PHILLIPPS CR	82.G.005	08H		03B	144.000	B
63515C	PACIFIC RIM WATER RESOURC	WORAN CR	93.D.044	05F	1	02H	266.000	B
63681C	3-S RANCH LTD	SHOOK CR	3786	13G		03B	200.000	B
63772C	WESTAR MINING LIMITED-GRE	PORTER CR	82J/SW,SE	08E		02I	403200.000	D
63887C	KOOTENAY BOUNDARY REGIONA	KELLY CR	82.F.013.1.2	180		00A	616120000.000	G
63902C	LANDS DIVISION (OCEAN FAL	LINK R	93.D.032	05F		02G	411000.000	D
63981C	MOORE DAVID C	STEPIEN CR	92F/4	01A		02E	.770	Q
64013C	HEATH WILLIAM A & VALERIE	VALERIE CR	8707B	31A		02E	.500	Q
64108C	PRINCE RUPERT CITY OF	SHAWATLAN LK & R	6704	25C		00A	5152999920.000	G
64113C	AQUASOURCE LTD	FREIL CR	92GNW	290		02H	1125.000	B
64116C	BRENDA MINES LTD	PEACHLAND CR	8497	300		05C	2454404.000	D
64268C	CRESSY GEORGE F	HOLM/LAWLESS/PROSPECT)		230		05D	4.000	Q
64291C	FINK JOSEF	ADAMSON CR	82L/10W(C)	30G		02E	.750	Q
64302C	BYRON CREEK COLLIERIES	CORBIN CR	1924	08E		02I	120.000	B
64303C	BLACKDOME EXPLORATION MIN	LOU CR	920/SE(7A)	05C		05C	200000.000	D
64409C	BIRCHWOOD DAIRY FARMS LTD	SUMAS R	5700G	20A		03B	140.000	B
64417C	WHISTLER MOUNTAIN SKI COR	GARBONZO CR	92.J.006.33	20H		02I	202.000	B
64418C	WHISTLER MOUNTAIN SKI COR	BOYD CREEK	92.J.006.3.3	29C		02I	202.000	B
64419C	WHISTLER MOUNTAIN SKI COR	FRANZ CR	92J/2D	29C		02I	202.000	B
64420C	WHISTLER MOUNTAIN SKI COR	ALDER CR	92J/2D	20H		02I	202.000	B
64464C	VAN LOON ANTONIUS J & COR	THOMSON CR	92.J.056.1.1	20H		03B	200.000	B
64466C	AQUARIUS SEAFARMS LTD	GRAY CR	92.G.052.1.3	29D		02E	10.000	Q
64470C	CHANNEL-BAR MINING CO LTD	FRASER R	92.H.043.4.2	20K		05D	1.114	Q
64495C	WHISTLER MOUNTAIN SKI COR	OLYMPIC CR	92J/2D	20H		02I	200.000	B
64582C	MCKEE GAYLON REED & EVA D	MURRAY CR	93.K.010	24E		03B	240.000	B
64598C	SCURRY RAINBOW OIL LTD	CHARLIE LK	94.A.036	22B		02I	.220	Q
64646C	BETKOWSKI JERZY P	LEONA CR	83.E.003	24B		03B	275.000	B
64685C	FIBRECO EXPORT INCORPORAT	PEACE R	94.A.017	22B		02A	9.000	Q
64703C	CALBICK WILLIAM R & WILLI	LILLOOET R	92J/7-E	20H		03B	104.000	B
64729C	LANDS DIVISION (OCEAN FAL	LINK R	93.D.032	05F		02A	80.000	Q
64907C	THOMPSON RONALD R	PORTER CR	92.0.099	05C		03B	213.000	B
64911C	GRAVES ARTHUR G & DONNA E	PORTER CR	92.0.099	05C		03B	168.000	B
64956C	INDIAN AGENCY-KAMLOOPS BA	S THOMPSON R	92.I.069.4.4	13H		03B	1230.000	B
65044C	EAGLE MOUNTAIN FARMS LTD	PERRY R	3864	13K		02E	5.000	Q

Lic.#	Owner	Source	Location	Precinct#PRP	PRP	QTY	Units
65075C	SCHELLER GORDON L	TOWINOCK CR	101	02D	03B	112.000	B
65159C	LAUTARD EDWARD L	W KETTLE R	3121	11E	03B	172.920	B
65160C	LAUTARD EDWARD L	W KETTLE R	3121	11E	03B	147.200	B
65204C	CHAMPAGNE GARY	W KETTLE R	3124	11E	03B	152.150	B
65210C	WHISTLER RESORT MUNICIPAL	TWENTY-ONE MILE CR	92 J.016.1.3	20H	00A	1095000000.000	G
65215C	FROMBERG HOLDINGS LTD	FROMBERG LK	92 F.080	29D	02E	.500	Q
65218C	SOULE CRAIG & GILBERT	RAMONA CR	92.G.072	29D	02E	10.000	Q
65224C	INDIAN AFFAIRS (987-552-7	AUPE CR	92.K.035	29D	02E	165000.000	D
65229C	PACIFIC AQUACULTURE LTD	SHONE CR	81000	29E	02E	900000.000	D
65246C	TOBA HOLDINGS LTD	BERG CR	92K/7(C)	29D	02E	1.000	Q
65252C	SALTON SALMON FARMS	SABISTON CR	92.G.061	29D	02E	.250	Q
65260C	HARPER GEORGE W	KLEINDALE CR	92.G.061.1.3	29D	02E	2.500	Q
65305C	NEWCOMB POINT SEAFARMS LT	PERIWINKLE CR	92.G.062	29D	02E	.230	Q
65310C	HARESTAD JOHN B	RAMONA CR	92.G.072	29D	02E	.250	Q
65312C	TRIPLE J POULTRY FARM	GLEN CR	92G/1(E,F)	20D	02I	107.400	B
65315C	WHISTLER MOUNTAIN SKI COR	ARCHIBALD CR	92.J.006.3.3	20H	02I	1954.740	B
65320C	NATIVE PRIDE AQUACULTURE	BARKER CR	8162A	29E	02E	1.250	Q
65331C	MOORE-CLARK CO (CANADA) I	FRASER R	8280	29F	02C	300000.000	D
65364C	WHISTLER RESORT MUNICIPAL	BLACKCOMB CR	92J.016.1.4	20H	00A	438000000.000	G
65370C	SQUAMISH DISTRICT OF	MASHITER CR	8231	29C	00A	766500000.000	G
65371C	FRASER VALLEY MUSHROOM GR	ARMSTRONG CR	92.G.007.3.4	20D	02B	160000.000	D
65405C	BASS DANIEL J & LINDA J	DANIEL/JOSEPH/BASS SPR	5883	20I	02E	900000.000	D
65407C	SECHELT SALMON FARM LTD	FUCHSIA CR	92G.061	29D	02E	1.000	Q
65420C	COAST CRANBERRIES LTD	FRASER R	92G.027.2.2	20D	02I	930.800	B
65520C	VANZANTEN JOHN ALLEN	SNODGRASS LK	93.K.001	12A	03B	120.000	B
65521C	ERICKSON GOLD MINING CORP	MCDAME LK	104P(4-G)	03	05C	360000.000	D
65531C	O'NEILL MICHAEL J & TERES	BIGGS CR	93.L.084.2.2.4	12C	02E	.250	Q
65577C	TOTTEN ROBERT & HEATHER	NORBURY CR	1801	08A	03B	109.000	B
65582C	MITCHELL MARGUERITE	PETERSON CR	3637C	13B	03B	441.250	B
65590C	MERIAM CHARLES M	CHERRY CR	82.L.027.4.2	30B	03B	170.000	B
65594C	LANSDALL FREDERICK C DR	S THOMPSON R	3708	13D	03B	220.000	B
65618C	DEW CHARLES R & STUART M	DICKEY CR	105	02D	03B	207.790	B
65633C	PIKE GORDON HAROLD	TEXAS CR	100	02D	03B	150.000	B
65752C	BEAVER MEADOW FARMS (1971	BEAVER SPRS	4821	17C	03B	230.000	B
65753C	QUALITY SEAFARMS LIMITED	ROSEN CR	92.K.015.3.2	17B	02E	1.860	Q
65764C	IBEC AQUACULTURE CORPORAT	KOKISH R	92.L.056	17B	02E	5.400	Q
65772C	MACMILLAN BLOEDEL LTD-PRO	FULLER LK	8718D	31A	02B	425000.000	D
65783C	FRANG OLE	MAGGIE LK	92C/NE-W1/2	01A	02E	18.000	Q
65784C	NORTH SALTSPRING WATERWOR	LAKE MAXWELL	92.B.083.2.1	31C	00A	73000000.000	G
65904C	CITIC BC INC	COLUMBIA R	5130F	18C	02A	60.000	Q
65905C	WESTAR TIMBER LTD	COLUMBIA R	5130F	18C	02B	1000000.000	D
66124C	E & M CATTLE CO LTD	TESTALINDEN CR	1502 & 6936	23B	03B	150.000	B
66154C	GOLDEN TRIANGLE RANCH INC	OKANAGAN LK	82.E.093.4.3	30D	00B	180000.000	D
66159C	TRANSPORTATION & HIGHWAYS	OKANAGAN LK	8495C	30D	00B	1077000.000	D
66200C	HUPP VERNON & SHIRLEY	GOLDEN DITCH	82.E.013.3.1	07A	02E	2.000	Q
66203C	FEDOR JOHN A	N NINE MILE CR	1508	07A	03B	300.000	B
66264C	CUDWORTH LEE A & BEVERLY	BOUNDARY CR	3062	11C	03B	150.000	B
66278C	SCHALIN JAMES	SHUSWAP R	82L/10-W(C)	30G	03B	200.000	B
66286C	BAR-O-BAR RANCH LTD	OTTER CR	6992	23D	03B	160.000	B
66333C	COLTON JUDITH E	SHUSWAP R	82L/10-W(C)	30G	03B	125.000	B
66343C	SOUTH OKANAGAN LANDS IRRI	OKANAGAN R	82.E.013.1.3	07A	03A	440.000	B
66369C	PETERSEN CARSTEN & JEAN	CHERRY CR	8433	30B	03B	130.000	B

WATER LICENCES

Lic.#	Owner	Source	Location	Precinct#PRP	PRP	QTY	Units
66370C	PETERSEN CARSTEN & JEAN	CHERRY CR	8433	30B	03B	130.000	B
66617C	CORBETT IRVINE K & PEGGY	FRASER R	93.G.017	26A	03B	390.000	B
66635C	FISHERIES & OCEANS CANADA	MCLOUGHLIN CR	103A/SE(1-G)	05F	02E	432000.000	D
66688C	INDIAN AFFAIRS (989-717-8	BIG CR	92.O.075,085 & 095	05A	03B	718.000	B
66689C	DUCKS UNLIMITED (CANADA)	BIG CR	92.O.076	05A	03B	1320.000	B
66729C	REDL THOMAS E & BARRIE M	HAWKS CR & O'KEEFE LK	1161 & 1162	05D	03B	390.000	B
66751C	IA(989-712-8225)-ANAHAM I	TAUTRI CR & ROSITA L	93B/SW(6-G)	26A	03B	296.000	B
66877C	DUCKS UNLIMITED (CANADA)(	QUILCHENA CR	6168	21D	03B	257.000	B
66994C	GRANT RANCHES LTD	STUMBLES CR	92I.016.4.1	21A	02E	2.500	G
67588C	SHUSWAP DISTRIBUTORS LTD	S THOMPSON R	3703	13D	03B	359.100	B
67590C	NELSON LINDA K	S THOMPSON R	370[illegible]	13D	03B	423.600	B
67687C	CASTLEGAR & DISTRICT GOLF	KOOTENAY R	5131B	18C	02F	210.000	B
67951C	LEIR JAMES	BROKEN CR	82E/SW(E)	23A	03B	100.800	B
67973F	LEIR JAMES H	MARRON R	1552	07B	03B	315.900	B
67975F	LEIR JAMES H	MARRON R	1552	07B	03B	131.700	B
67977F	LEIR JAMES H	MARRON R	1552	07B	03B	233.700	B
67990C	WESTBANK IRRIGATION DISTR	WHITE ROCKS & N LAMBLY	82L/4W	30D	00A	542944000.000	G
67991C	WESTBANK IRRIGATION DISTR	LAMBLY,N POWERS,PADDLE	8499 & 8500	30D	00A	73300000.000	G
68044C	WESTMIN RESOURCES LTD	CASCADE R	104B/IE	25C	05C	592000.000	D
68149C	FARM CREDIT CORPORATION	THYNNE CR	6991	23D	03B	415.800	B
68150C	WILSON BARRY J & SHARON D	THYNNE CR	6991	23D	03B	184.200	B
68179C	PELLY ELIZABETH & ROBERT	FINNEGAN CR	6971	23C	03B	108.750	B
68216C	GERVAN HAROLD & PATRICIA	CHURCHILL CR	8438	30B	03B	135.000	B
68217C	MCLEOD GERALD	CHURCHILL CR	8438	30B	03B	135.000	B
68821C	LANDS DIVISION (OCEAN FAL	LINK R	93.D.032	05F	02H	20000.000	B
68822C	LANDS DIVISION (OCEAN FAL	LINK LK	93.D.032	05F	02H	22635.300	B

10. DAMS AND FLOW REGULATION LISTINGS

The storage water licences listed in this section include all the licences on Water Management Branch Files. Some of these, especially those where the flow is not fully utilized or where existing outlet works could be adapted, may show potential for small hydro power development.

Supplementary data has been obtained from Water Management Branch Regional Offices for selected sites which appeared to have small hydro potential as well as for all large dams. These lists follow the main listings. The results indicated that relatively few sites would have sufficient potential, but this can only be determined from a more detailed enquiry. Water Management Branch Regional offices have information to varying degrees on most of the dams listed. Further information is included in Section 2.9 and the database.

DAMS

Lic.#	Owner	Source	Location	Precinct	#PRP	PRP	QTY	Units
1816C	HEFFLEY IRRIGATION DISTRI	EDWARDS CR	3828	13H	1	08A	125.000	B
1919A	B C HYDRO	PUNTLEDGE RIVER						
1919B	B C HYDRO	PUNTLEDGE RIVER						
2062C	HEFFLEY IRRIGATION DISTRI	HEFFLEY LK	3817	13H	1	08A	430.000	B
2192C	HEFFLEY IRRIGATION DISTRI	COMMUNITY LK	3828	13H	1	08A	125.000	B
2194C	HEFFLEY IRRIGATION DISTRI	HEFFLEY LK	3817	13H	1	08A	80.000	B
2196C	HEFFLEY IRRIGATION DISTRI	HEFFLEY LK	3817	13H	1	08A	100.000	B
2198C	HEFFLEY IRRIGATION DISTRI	COMMUNITY LK	3828	13H	1	08A	100.000	B
2200C	HEFFLEY IRRIGATION DISTRI	HEFFLEY LK	3817	13H	1	08A	110.000	B
2540C	WEST VANCOUVER DISTRICT O	BROTHERS CR	8100	29E	1	08A	9.500	B
2847C	HEFFLEY IRRIGATION DISTRI	HEFFLEY LK	3817	13H	1	08A	1000.000	B
3134F	GENSTAR CEMENT LTD	BAMBER CR	8751L	31C	01	08A	31.000	B
3408F	JUDGE JAGER S ESTATE OF	PORTERS CR	8792A	31B	01	08A	.050	B
3421F	VANCOUVER GOLF & COUNTRY	AUSTIN CR	5791	20E	01	08A	.740	B
3497F	IMPERIAL OIL LIMITED	SASAMAT LK	8160A	29E	01	08A	300.000	B
3567F	INSKIP DOUGLAS V	WILLIAMS CR	3822	13H	01	08A	35.000	B
3652F	B C HYDRO & POWER AUTH	STAVE R	5881	20I	01	08A	250000.000	B
3652	B C HYDRO & POWER AUTH	STAVE R						
3652	B C HYDRO & POWER AUTH	STAVE R						
3682C	HEFFLEY IRRIGATION DISTRI	DEVICK LKS	3828	13H	1	08A	325.000	B
3685C	HEFFLEY IRRIGATION DISTRI	COMMUNITY LK	3828	13H	1	08A	103.000	B
3686C	HEFFLEY IRRIGATION DISTRI	LITTLE HEFFLEY LK	3817	13H	1	08A	110.000	B
3687C	HEFFLEY IRRIGATION DISTRI	COMMUNITY LK	3828	13H	1	08A	130.000	B
3716F	COPPER BEACH ESTATES LTD	BRITANNIA CR	8229	29C	01	08A	700.000	B
3723F	COPPER BEACH ESTATES LTD	MOUNTAIN LK	8229	29C	01	08A	574.000	B
3726		FURRY CREEK						
3729F	IMPERIAL OIL LIMITED	SASAMAT LK	8160A	29E	01	08A	340.000	B
3754F	FOX LEWIS F	DRY CR	3703	13D	01	08A	16.000	B
3758C	HEFFLEY IRRIGATION DISTRI	ARMOUR CR	3817	13H	1	08A	512.000	B
3759C	HEFFLEY IRRIGATION DISTRI	ARMOUR CR	3817	13H	1	08A	327.000	B
3779C	WESTBANK IRRIGATION DISTR	LOWER JACK PINE LK	6499	30D	1	08A	600.000	B
3838C	HEFFLEY IRRIGATION DISTRI	HEFFLEY CR	3817	13H	1	08A	100.000	B
3916F	ATKINSON RAYMOND G	HARRISON CR	3706	13D	01	08A	10.000	B
4018F	GLEN MARGUERITE C	FIFTYSEVEN CR	335	02B	01	08A	36.500	B
4146C	HEFFLEY IRRIGATION DISTRI	HEFFLEY CR	3817	13H	1	08A	165.000	B
4148C	HEFFLEY IRRIGATION DISTRI	HEFFLEY CR	3817	13H	1	08A	95.000	B
4150C	HEFFLEY IRRIGATION DISTRI	HEFFLEY LK	3817	13H	1	08A	50.000	B
4152C	HEFFLEY IRRIGATION DISTRI	EDWARDS CR	3814	13H	1	08A	10.000	B
4171	B C HYDRO	BULL RIVER						
4238F	COLLETT ALLAN	MARQUART LK	6055	21B	01	08A	22.000	B
4248F	FARLEIGH LAKE W U C	SHINGLE CR	1557	07B	01	08A	40.000	B
4287F	COPPER BEACH ESTATES LTD	BRITANNIA CR & UTOPIA LK	8229	29C	01	08A	700.000	B
4342F	HARRISON ROBERT J	NEDS CR	3703	13D	01	08A	38.000	B
4450F	ALEGRE GASTON	HAHA CR	1400	06J	01	08A	104.000	B
4735F	B C HYDRO & POWER AUTHORI	LLOYD CR	323	02B	01	08A	16.000	B
4737F	CHRISTIAN JACK	CACHE CR	92I/14E	02B	01	08A	212.000	B
4739F	CHRISTIAN JACK	BATTLE CR	327	02B	01	08A	318.000	B
4740F	CHRISTIAN JACK	SEMLIN LK	327	02B	01	08A	318.000	B
4878C	TRAIL CITY OF	VIOLIN LK	82F/4E(B)	18K	1	08A	1000.000	B
4897F	WESTERN PULP INC	SYLVIA LK	92G/NW	29D	01	08A	350.000	B
4912F	G & R ENTERPRISES LTD	RISKE CR S FORK	92.0.086	05A	01	08A	220.000	B
4954F	B C HYDRO & POWER AUTH	STAVE R	5881	20I	01	08A	220000.000	B
5043F	WEINGART S	CHIMNEY CR	92.0.100	05E	01	08A	30.000	B
5104F	WELDON ROBERT F & MOLLIE	SING LEE CR	93.B.058.2	26A	01	08A	3.000	B
5181A	ANYOX	ANYOX CREEK						
5181B	ANYOX	BIG FALL CREEK						
5218F	STAFFORD WILLIAM H	CHIMNEY CR	1123	05E	01	08A	394.500	B
5320C	NORTH VANCOUVER CITY OF	LYNN CR & RICE LK	8100	29E	1	08A	284.000	B
5406F	RISKE CREEK RANCHING LTD	RISKE CR	93.B.007	05A	01	08A	195.000	B
5453F	INDIAN AFFAIRS BRANCH	FOUNTAIN CR	104	02D	01	08A	200.000	B

DAMS

Lic.#	Owner	Source	Location	Precinct	#PRP	PRP	QTY	Units
5454F	INDIAN AFFAIRS BRANCH	FOUNTAIN CR	104	02D	::	08A	50.000	B
5559F	BRIDGE CREEK ESTATE LTD	LITTLE BRIDGE CR	1004	05B	::	08A	60.000	B
5629F	STEFFEN BROS RANCH LTD	STEFFENS CR	6008	21A	::	08A	180.000	B
5638F	JEFFERSON RAYMOND A & SHI	WIGGINS CR	1168	05D	::	08A	36.000	B
5644	B C HYDRO	ELK R						
5646F	B C HYDRO & POWER AUTH	ELK R	1954A	08F	::	08A	470.000	B
5659F	NICOLA RANCH LTD	LOGANS CR	6166	21D	::	08A	100.000	B
5662F	CHAMBERS PHILIP F & GRACE	HOWARTH CR	6059	21B	::	08A	62.000	B
5692F	RISKE CREEK RANCHING CO L	DOC ENGLISH GULCH	1053	05A	::	08A	75.000	B
5716F	LUND LARRY A & MAY M	DANISH CR	92.I.037.1.1	21A	::	08A	6.000	B
5733F	MENZIES J A LIMITED	MENZIES LK	6059	21B	::	08A	17.500	B
5734C	PENTICTON CITY OF	PENTICTON CR	82E/11W(E)	07B	:	08A	895.000	B
5735C	PENTICTON CITY OF	ELLIS CR	82E/6W(F)	07B	.	08A	359.000	B
5780F	BUCKSKIN LAND & CATTLE CO	BUCKSKIN CR	93B/1-F	05D	::	08A	95.000	B
5883F	ASHCROFT RANCH	MEDICINE CR & CORNWALL CR	324	02B	::	08A	300.000	B
5895F	MICHELL NOEL H	JACKO CR	3751	13F	::	08A	25.000	B
5943F	MEYER EDNA MRS	ASHCROFT CR	304	02A	::	08A	19.000	B
5947F	FROLEK RANCH & SAWMILLS L	DROPPINGWATER CR	3697	13D	::	08A	20.000	B
6055F	BRIDGE CREEK ESTATE LTD	GLOVER CR	1003	05B	::	08A	30.000	B
6065F	FROLEK RANCH & SAWMILLS L	DROPPINGWATER CR	3697	13D	::	08A	60.000	B
6073F	MICHELL NOEL H	WALLOPER CR	6017	21A	::	08A	40.000	B
6150F	GARTHWAITE GRETA A	SAXON LK	6008	21A	::	08A	48.000	B
6199F	GREGORY NORMAN S & BETTY	GLOVER LK	92.I.059.2.2	13D	::	08A	50.000	B
6202F	GREGORY NORMAN S & BETTY	BLEEKER CR	3696	13D	:	08A	50.000	B
6246F	CAMPBELL CREEK W U C	CAMPBELL CR	92.I.049.4.3	13D	:	08A	110.500	B
6248F	GILLESPIE ROSS G	PROUTON CR	1166	05D	::	08A	85.000	B
6273F	INDIAN GARDENS RANCH LTD	DURAND CR	3760	13F	::	08A	150.000	B
6285F	NED'S CREEK RANCH LTD	NEDS CR	3703	13D	::	08A	38.000	B
6287F	WATT JAMES D	LEONIE CR	3638	13E	::	08A	42.500	B
6289F	WATT JAMES D	LEONIE CR	3638	13B	::	08A	25.000	B
6290F	WATT JAMES D	LEONIE CR	3638	13B	:	08A	200.000	B
6321F	INDIAN GARDENS RANCH LTD	DURAND CR	3760	13F	:	08A	55.000	B
6334F	WHISPERING PINES RANCH LT	GUICHON CR	6014	21A	::	08A	45.000	B
6336F	INDIAN GARDENS RANCH LTD	GUICHON CR	6014	21A	:	08A	47.000	B
6338F	WHISPERING PINES RANCH LT	GUICHON CR	6014	21A	:	08A	175.000	B
6340F	WHISPERING PINES RANCH LT	GUICHON CR	6014	21A	:	08A	51.000	B
6343F	WHISPERING PINES RANCH LT	GUICHON CR	6014	21A	:	08A	100.000	B
6346F	ELLIOTT BOYD & IRENE	GUICHON CR	6014	21A	::	08A	93.000	B
6349F	WHISPERING PINES RANCH LT	GUICHON CR	6014	21A	.	08A	270.000	B
6351F	INDIAN GARDENS RANCH LTD	GUICHON CR	6014	21A	:	08A	130.000	B
6354F	WHISPERING PINES RANCH LT	TUNKWA CR	3761	13F	:	08A	100.000	B
6361F	INDIAN GARDENS RANCH LTD	DURAND CR	3760	13F	::	08A	90.000	B
6409F	DOUGLAS LAKE CATTLE CO	RUSH CR	3740	13E	:	08A	32.000	B
6410F	DOUGLAS LAKE CATTLE CO	GOODWIN CR	3739	13E	:	08A	120.000	B
6425F	HODGSON WILLENA	RISKE CR	92.0.098	05A	.	08A	100.000	B
6470F	WEYMARK WILLIAM	MISSEZULA LK	92H/16W(D)	23C	::	08A	72.500	B
6471F	SHOPSHIRE WILLIAM & ASTRI	MISSEZULA LK	92H/16W(D)	23C	::	08A	25.000	B
6472F	SHOPSHIRE WILLIAM & ASTRI	MISSEZULA LK	92H/16W(D)	23C	::	08A	24.500	B
6487F	DEVICKS RANCH LTD	KNOUFF LK	3820	13H	:	08A	172.000	B
6500C	GRAFE GLEN A	ROCK CR	1134	05E	.	08A	100.000	B
6520C	RUDIGER CHAROLAIS RANCHES	WALES CR	920/SE	05C	.	08A	50.000	B
6644	B C HYDRO	WOODWORTH L						
6681F	MERVYN DOUGLAS	ALKALI CR	1103	05C	.:	08A	60.000	B
6682F	MERVYN DOUGLAS	ALIXTON LK	92.0.090	05C	::	08A	250.000	B
6685F	MERVYN DOUGLAS	ALKALI CR	92P/13W(D)	05C	.:	08A	95.000	B
6690F	R K PROPERTIES LTD	VENABLES CR	361	02E	:	08A	205.000	B
6822F	MESSERSCHMIDT WILHELM	CLARK CR	1554	07B	.:	08A	3.000	B
6908F	RUSSELL NELLIE	BOTANIE CR	347	02C	.	08A	117.000	B
6940F	CHAI-NA-TA GINSENG PRODUC	BOTANIE CR	347	02C	:	08A	117.000	B
7146F	B C HYDRO & POWER AUTH	ALOUETTE LK	92G/8-C.D	20C	.	08A	151000.000	B

DAMS

Lic.#	Owner	Source	Location	Precinct	#PRP	PRP	QTY	Units
7136F	GLEN MARGUERITE C	FIFTYNINE CR	335	02B	01	08A	87.500	B
7216F	AMBRAHAMSE PIETER	JEWEL CR	3063	11C	01	08A	31.500	B
7220F	WESTERN PULP INC	WOODFIBRE CR	8237	29C	01	08A	2295.000	B
7245F	B C HYDRO & POWER AUTHORI	FINNEY LK	324	02B	01	08A	95.000	B
7252F	SCHMIDT EUGENE	BRIGADE CR	92P/3E	02B	01	08A	107.000	B
7307F	MORRISON RANCHES LTD	ANDERSON CR	3698	13D	01	08A	80.000	B
7308F	MORRISON RANCHES LTD	HUMPHREY CR	3751	13F	01	08A	50.000	B
7385F	DAVIES MUNRO R	TERMINAL CR	92.G.034.3.1	29C	01	08A	.600	B
7400F	GROUSE MT RESORTS LTD	KICKHAM CR	8100	29E	01	08A	4.000	B
7426F	STEFFEN BROS RANCH LTD	REVELLE LK	6008	21A	01	08A	100.000	B
7437F	BAKKER TED C & MAUREEN A	CHARTRAND CR	6013	21A	01	08A	282.000	B
7449F	HUB CONTRACTING LTD	IRON LK	92G/7-F	29E	01	08A	75.000	B
7605F	SALLE MARJORIE I	NELSON CR	3638B	13B	01	08A	8.200	B
7607F	BAIRD THOMAS S	NELSON CR	3638B	13B	01	08A	7.400	B
7608F	SALLE VOLKMAR A R	NELSON CR	3638B	13B	01	08A	16.000	B
7628F	BAKKER TED C & MAUREEN A	GUICHON CR	6014	21A	01	08A	282.000	B
7712F	SUGARLOAF RANCHES LTD	ALKALI CR	3751	13F	01	08A	52.000	B
7749F	RIVER GLEN RANCHES LTD	VALLEY CR	1122	05E	01	08A	25.000	B
7753F	ONWARD CATTLE CO LTD	SAN JOSE R	1124	05E	01	08A	75.000	B
7755F	ONWARD CATTLE CO LTD	JONES CR	1122	05E	01	08A	49.000	B
7763F	ONWARD CATTLE CO LTD	JONES CR	1122	05E	01	08A	201.000	B
7764F	ONWARD CATTLE CO LTD	SAN JOSE R	1123	05E	01	08A	100.000	B
7768F	PETERSON K B & VIRGINIA	S HAWKS CR	1161	05D	01	08A	40.000	B
7787F	FURRER VICTOR	LONGBOW CR	92P/NE	05B	01	08A	19.000	B
7813C	INDIAN AGENCY-WILLIAMS LA	ANAHIM CR	93.B.025	05A	1	08A	400.000	B
7910F	SHULUS CATTLE CO LTD	GUICHON CR	92.I.036.4.2	21A	01	08A	84.000	B
8114F	GOODELL ELMER D	MONTE LK	3735	13E	01	08A	10.000	B
8129F	GOODELL ELMER D	MONTE CR	3704	13D	01	08A	163.000	B
8131F	BUFF KURT	MONTE CR	3704	13D	01	08A	163.000	B
8159F	MILLER VICTOR LEONARD & P	MONTE CR	3704	13D	01	08A	230.000	B
8199C	PENTICTON CITY OF	HOWARD LK	82E/11W(C)	13E	1	08A	100.000	B
8216F	CHAMBERS DONALD T	EVE CR	6009	21A	01	08A	34.500	B
8219F	GARTHWAITE GORDON	PHELPS LK	92I/7E(B)	21A	01	08A	30.000	B
8298F	DIVERSIFIED HOLDINGS LTD	BRADY CR	2963	13F	01	08A	30.000	B
8366F	INDIAN AFFAIRS BRANCH	KWAKIUTL CR	103A/SE	05F	01	08A	10.000	B
8374F	NEWMAN JOHN A	LEASK CR	92.K.045	29D	01	08A	240.000	B
8377F	WEST KOOTENAY POWER & LIG	FALLS CR	5301B	18N	01	08A	.370	B
8411F	SACKMANS TRAILS END LAND	ALEXIS CR	93.B.014	05A	01	08A	66.500	B
8430F	B C HYDRO & POWER AUTH	COQUITLAM LK	5793	20E	01	08A	29500.000	B
8432F	B C HYDRO & POWER AUTH	COQUITLAM LK	5793	20E	01	08A	180500.000	B
8432A	B C HYDRO & POWER AUTH	COQUITLAM LK						
8432B	B C HYDRO & POWER AUTH	COQUITLAM LK						
8434C	INDIAN AGENCY-WILLIAMS LA	ANAHIM CR	93.B.025	05A	1	08A	600.000	B
8434F	B C HYDRO & POWER AUTH	BUNTZEN LK	92G/7-C.D	29E	01	08A	10500.000	B
8499C	HAGMAN JUANITA D & WILSON	VALLEE CR	93.L.047	13D	1	08A	100.000	B
8510F	JEFFERSON RAYMOND A & SHI	WIGGINS CR	1168	05D	01	08A	40.000	B
8600F	VERNON CITY OF	B X CR	8582D	30F	01	08A	324.000	B
8601F	SOUTH VERNON IRRIGATION D	B X CR	8582D	30F	01	08A	500.000	B
8690F	GREATER VANCOUVER WATER D	SEYMOUR R	92G/7-E	29E	01	08A	18050.000	B
8692F	GREATER VANCOUVER WATER D	PALISADE CR	92G/6-G.H	29E	01	08A	13500.000	B
8760F	CALLAHAN THOMAS L & M	BELLEVUE CR	8417B	30A	01	08A	12.000	B
8761F	KUIPERS MARIUS L	BELLEVUE CR	8417B	30A	01	08A	11.000	B
8762F	KUIPERS MARIUS L	BELLEVUE CR	8417B	30A	01	08A	14.000	B
8795F	153 MILE RANCH	FIVE MILE CR	1126	05E	01	08A	120.000	B
8849F	INDIAN AFFAIRS BRANCH	DOG CR	92.O.070	05D	01	08A	240.000	B
8893F	HILTON JAMES A	CHRISTIAN CR	6769	[illegible]	01	08A	15.000	B
8917F	SHOFSHIRE WILLIAM & ASTRI	VINSON CR	92H/16W	[illegible]	01	08A	12.500	B
8935F	INDIAN AFFAIRS BRANCH	GUICHON CR	92.I.016.4.1	21A	01	08A	948.000	B
8936F	SHULUS CATTLE CO LTD	GUICHON CR	92.I.016.4.1	21A	01	08A	377.000	B
8937F	GARDNER RANCH LTD	GUICHON CR	92.I.016.4.1	21A	01	08A	115.400	B

DAMS

Lic.#	Owner	Source	Location	Precinct	#PRP	PRP	QTY	Units
8936F	GARDNER RANCH LTD	GUICHON CR	92.I.036.4.2	21A	01	08A	50.000	B
8939F	MOYER J C & A J	GUICHON CR	92.I.036.4.2	21A	01	08A	26.800	B
8956F	VAUGHAN & RUSSELL FARMS	CHRISTIAN CR	6969	23C	01	08A	30.000	B
8998C	INDIAN AGENCY-WILLIAMS LA	ANAHIM CR	93.B.025	05A	1	08A	2300.000	B
9076F	JOHNSTON ALEXANDER M	GILL CR	92P/NE(9-G)	13C	01	08A	140.000	B
9113F	STAFFORD WILLIAM H	CHIMNEY CR	1137	05E	01	08A	190.000	B
9122C	HEFFLEY IRRIGATION DISTRI	CHRISTIAN CR	3636	13B	1	08A	600.000	B
9123F	RUEGGEGGER WILLY & CHRIS	LOLO CR	92P/NE	13C	01	08A	65.500	B
9217F	JAEGGI MARY E	MACAULAY CR	2951	10H	01	08A	13.000	B
9218F	TEGART DENIS G & ROSEMARY	MACAULAY CR	2951	10H	01	08A	87.000	B
9243F	VERNON CITY OF	KALAMALKA LK	8469A	30C	01	08A	4200.000	B
9246C	DOUGLAS LAKE CATTLE CO	HATHEUME CR	92H/NE	21D	1	08A	330.000	B
9265C	B C HYDRO & POWER AUTH	BRIDGE R	121	02D	1	08A	7.500	B
9266F	PIGEON ALBERT P & ELEANOR	VALENZUELA LK	277	02J	01	08A	50.000	B
9279F	INDIAN AFFAIRS BRANCH	SKOONKA & BOTANIE CR	347	02C	01	08A	207.000	B
9280F	INDIAN AFFAIRS BRANCH	BOTANIE CR	347	02C	01	08A	80.000	B
9286F	BALMAN-HOOK RANCHES LTD	KOSTER CR	275	02J	01	08A	200.000	B
9361F	PRETTY ROWENA ESTATE OF	ELBOW CR	5850H	20H	01	08A	120.000	B
9362F	PRETTY MYRTLE L	ELBOW CR	5850H	20H	01	08A	60.000	B
9483F	SURF INLET POWER CO LTD	COUGAR LK	103H/NE	25A	01	08A	100000.000	B
9483	SURF INLET POWER CO LTD	COUGAR LK						
9492F	LUCAS LEONARD	TWIG CR	3736	13E	01	08A	80.000	B
9526F	ONWARD CATTLE CO LTD	LAC LA HACHE	92.P.082.4	05E	01	08A	753.000	B
9527F	ONWARD CATTLE CO LTD	LAC LA HACHE	92.P.082.4	05E	01	08A	533.000	B
9540F	MACMILLAN BLOEDEL & POWEL	POWELL R	92F/NE	29C	01	08A	650000.000	B
9548F	WICKLOW WEST HOLDINGS LTD	KULLAGH CR	6150	21D	01	08A	55.000	B
9550F	DOUGLAS LAKE CATTLE CO	QUILCHENA CR	92H/16W(F)	21D	01	08A	337.400	B
9551F	FROLEK RANCH & SAWMILLS L	CAMPBELL CR	92.I.059.4.2	13D	01	08A	32.000	B
9560F	C 1 RANCH LTD	ALEXIS CR	93B/SW(5-A)	05A	01	08A	218.000	B
9562F	C 1 RANCH LTD	ANAHIM CR	93.B.025	05A	01	08A	43.100	B
9565F	SCHOOL DISTRICT NO 27 CAR	WILLAN CR	92O/NW(11-G)	05A	01	08A	400.000	B
9580F	DEVICKS RANCH LTD	SULLIVAN LK	3818	13H	01	08A	705.000	B
9582F	LEAVITT KATHLEEN M	SULLIVAN LK	3818	13H	01	08A	310.500	B
9584F	DEVICKS RANCH LTD	SULLIVAN LK	3818	13H	01	08A	86.700	B
9586F	DEVICKS RANCH LTD	SULLIVAN LK	3818	13H	01	08A	103.500	B
9597F	SEIBERT KARL W/R M	PABLO CR	1109	05C	01	08A	130.500	B
9622F	INDIAN AFFAIRS BRANCH	ASAHAL CR	1121	05E	01	08A	57.400	B
9624F	INDIAN AFFAIRS BRANCH	WEBB CR	1006	05E	01	08A	500.000	B
9664C	ROSSLAND CITY OF	MURPHY HANNA & STONEY CR	82.F.001.4.4	15K	1	08A	84.720	B
9672F	LOWER NICOLA WATERWORKS D	GUICHON CR	92.I.036.4.2	21A	01	08A	50.800	B
9714C	PENTICTON CITY OF	CORPORATION CR	82E/11W(E)	07B	1	08A	150.000	B
9847F	G & R ENTERPRISES LTD	THADDEUS CR	92.O.097	05A	01	08A	67.500	B
9849F	INDIAN AFFAIRS BRANCH	ALKALI CR	92.O.090	05C	01	08A	360.000	B
9881F	ANDERSEN HARRY WM	HELEN LK	93.L.047	12C	01	08A	2.000	B
9929C	PARKE GORDON H S	SCHNEIDER SWAMP	325	02B	1	08A	50.000	B
9962F	PARKE GORDON H S	PHIL CR	325	02B	01	08A	40.000	B
9964F	PARKE GORDON H S	PARKE LK	325	02B	01	08A	20.000	B
9966F	INDIAN AFFAIRS BRANCH	HAT CR	92I/12E(H)	02B	01	08A	50.000	B
9980F	C & A MINK RANCH LTD	KOSTERING CR	92P/4W(E)	02J	01	08A	25.000	B
9982F	LAC LA HACHE HEREFORD RAN	117 MILE CR	92.P.083.2	05E	01	08A	100.000	B
9988F	INDIAN AFFAIRS BRANCH	FOUNTAIN CR	104	02D	01	08A	200.000	B
9991F	INDIAN AFFAIRS BRANCH	FOUNTAIN CR	104	02D	01	08A	45.000	B
9995F	INDIAN AFFAIRS BRANCH	FOUNTAIN CR	104	02D	01	08A	47.500	B
10149F	COVE BAY IMPROVEMENT DIST	GRAFTON LK	92.G.034.3.1	29C	01	08A	6.000	B
10151F	COVE BAY IMPROVEMENT DIST	GRAFTON LK	92.G.034.3.1	29C	01	08A	12.000	B
10153F	TOUCHSTONE INVESTMENTS	JOSEPHINE CR	92.G.034.1.3	29C	01	08A	.600	B
10155F	TOUCHSTONE INVESTMENTS	JOSEPHINE CR	92.G.034.1.3	29C	01	08A	.300	B
10157F	FARGHER JEFFRAY	JOSEPHINE CR	92.G.034.1.3	29C	01	08A	.600	B
10159F	CUMMING M I & JOHNSTONE M	JOSEPHINE CR	92.G.034.1.3	29C	01	08A	.300	B
10161F	TOUCHSTONE INVESTMENTS	JOSEPHINE CR	92.G.034.1.3	29C	01	08A	3.000	B

DAMS

Lic.#	Owner	Source	Location	Precinct	#PRP	PRP	QTY	Units
10187C	B C HYDRO & POWER AUTH	BIG FALLS CR	103H/NW(13-G)	25A	1	08A	30000.000	B
10195F	LAUDER RANCHES LTD	LAUDER CR	6157	21D	01	08A	200.000	B
10196F	LAUDER RANCHES LTD	LAUDER CR	6157	21D	01	08A	157.000	B
10229F	MOON MELVILLE C S ESTATE	MELDRUM CR	93.B.018	05A	01	08A	424.000	B
10231F	RISKE CREEK RANCHING LTD	TAYLOR CR	93.B.007	05D	01	08A	200.000	B
10233F	BUCKSKIN LAND & CATTLE CO	BUCKSKIN CR	93B/1-F	05D	01	08A	50.000	B
10246F	INDIAN AFFAIRS BRANCH	NISKONLITH LK	3826	13H	01	08A	6000.000	B
10253C	DOUGLAS LAKE CATTLE CO	QUILCHENA CR	92H/NE	21D	1	08A	880.000	B
10276F	G & R ENTERPRISES LTD	WITHROW CR	92.0.086	05A	01	08A	135.000	B
10278F	INDIAN AFFAIRS BRANCH	FIVE MILE CR	1122	05E	01	08A	100.000	B
10338F	CANADIAN IMPERIAL BANK OF	DESCHAMPS CR	82E/12W(G)	07B	01	08A	50.000	B
10351C	PENTICTON CITY OF	REED CR	82E/11W(D)	07B	1	08A	250.000	B
10389C	PERRY RANCH LTD	CACHE CR	92I/14W	02B	1	08A	325.000	B
10408F	LUND WATERWORKS DISTRICT	THULIN LK	8265	29D	01	08A	50.000	B
10438F	B C BUILDINGS CORPORATION	TRANQUILLE R	92I/15E	13J	01	08A	1860.000	B
10458F	INDIAN AFFAIRS BRANCH	ROSELAKE CR	1162	05D	01	08A	2340.000	B
10466F	INDIAN AFFAIRS BRANCH	HUCKLEBERRY CR	347	02C	01	08A	100.000	B
10641F	JOHNSON LIONEL B & JACQUE	CLARK LK	82E/NE	11E	01	08A	100.000	B
10672F	MACLEAN ALEXANDER D	JEWEL CR	3063	11C	01	08A	12.000	B
10700F	INDIAN AFFAIRS BRANCH	CLEMES LK	92I/14E	02F	01	08A	60.000	B
10705F	KISKANA FARMS LTD	YELLOW LK	6935	23B	01	08A	183.000	B
10706F	KISKANA FARMS LTD	YELLOW LK	6935	23B	01	08A	67.000	B
10824F	GERARD GUICHON RANCH	PETER HOPE CR	6154	21D	01	08A	212.750	B
10852F	DOUGLAS LAKE CATTLE CO	SUCKER LK	82L/4W(E)	21D	01	08A	383.200	B
10892F	FROLEK RANCH & SAWMILLS L	CAMPBELL CR	92.I.059.2.3	13D	01	08A	54.000	B
10996F	GRAFE GLEN A	ROCK CR	1134	05E	01	08A	49.500	B
11022F	GENSTAR CEMENT LTD	OLIPHANT LK	8751K	31C	01	08A	450.000	B
11036F	SUGARLOAF RANCHES LTD	ALKALI CR	3751	13F	01	08A	40.000	B
11082F	FROLEK RANCH & SAWMILLS L	ANDERSON CR	3698	13D	01	08A	132.500	B
11125C	JELLICOE RANCHES LTD	HAYES CR	92.H.069.4.3	23C	1	08A	84.000	B
11137F	GARTHWAITE GRETA A	TOM PETER CR	6008	21A	01	08A	55.000	B
11146F	BIX RANCH LIMITED	CAMPEAU CR	92P/SE	02B	01	08A	40.000	B
11159F	PROULX ANGELA	PETERSON CR	92P/SE	13B	01	08A	62.500	B
11161F	INKSTER ANDREW K	PETERSON CR	92P/SE	13B	01	08A	17.500	B
11360	WKPL - LOWER BONNINGTON	KOOTENAY R						
11416F	MACMILLAN BLOEDEL LTD	BANON CR	8719A	31A	01	08A	300.000	B
11423F	PROULX JOHN A SR ET AL	PETERSON CR & ALLAN LK	92P/SE	13B	01	08A	50.000	B
11424F	GREGORY NORMAN S & BETTY	CAMPBELL CR	92.I.049.4.3	13D	01	08A	50.000	B
11575F	COLDWELL HENRY W	JESMOND CR	260	02J	01	08A	40.000	B
11720C	WALLACE REID A	DEMPSEY CR	1142	05E	1	08A	100.000	B
11722C	WALLACE REID A	DEMPSEY CR	1142	05E	1	08A	100.000	B
11745								
11746F	WESTBANK IRRIGATION DISTR	POWERS CR	8499	30D	01	08A	42.000	B
11747F	WESTBANK IRRIGATION DISTR	POWERS CR	8499	30D	01	08A	66.250	B
11749F	WESTBANK IRRIGATION DISTR	POWERS CR	8400	30D	01	08A	12.500	B
11759F	INDIAN AFFAIRS BRANCH	PAUL CR	3815A	13H	01	08A	2500.000	B
11761F	HARPER RANCH LTD	PAUL CR	3815A	13H	01	08A	2500.000	B
11780F	SALLE MARJORIE I	NELSON CR	3623B	13B	01	08A	4.000	B
11781C	MILLER RANCHES LTD	NILSSON CR	6061	21B	1	08A	150.000	B
11802F	SAM DENNIS	SAMSON CR	92I/2-E(G)	21A	01	08A	9.000	B
11808C	SLATE PLACER LTD	SLATE CR	6560	24C	1	08A	75.000	B
11973F	ALSAGER HOLDINGS LTD	GASPARD CR ET AL	920/SE(7-B.3)	05C	01	08A	6000.000	B
11975F	B C CATTLE CO LTD	CANOE CR	279	02J	01	08A	369.000	B
12021F	FOUNTAINVIEW FARMS	CINQUEFOIL CR	352	02C	01	08A	137.000	B
12022F	INDIAN AFFAIRS BRANCH	CINQUEFOIL CR	352	02C	01	08A	46.000	B
12024F	COMINCO LTD	KIMBERLEY CR & LOIS LK	1340	06G	01	08A	155.000	B
12089C	DARFIELD IRRIG DIST	LINDQUIST CR	92P/SE(8-C)	13B	1	08A	75.000	B
12090C	DARFIELD IRRIG DIST	LINDQUIST CR	92P/SE(8-C)	13B	1	08A	25.000	B
12176F	BLACK MOUNTAIN IRRIGATION	SCOTTY CR	8403	30A	01	08A	1025.000	B
12183F	BURDETT ROBERT FRANCIS O	BUTEDALE LK	103H/SE	25A	01	08A	6144.000	B

DAMS

Lic.#	Owner	Source	Location	Precinct	#PRP	PRP	QTY	Units
12206F	RESH LYLE W & BETTY L	CHIMNEY CR	113B	05E	01	08A	27.000	B
12208F	LUMLEY GEORGE F & MARIE M	LYNE CR	1159	05D	01	08A	60.000	B
12285C	INDIAN AFFAIRS BRANCH	ANAHIM CR	93.B.025	05A	1	08A	1400.000	B
12329F	MEADOW VALLEY IRRIGATION	DARKE CR	1605	07C	01	08A	260.000	B
12331F	MEADOW VALLEY IRRIGATION	DARKE CR	1605	07C	01	08A	95.000	B
12333F	MEADOW VALLEY IRRIGATION	DARKE CR	1605	07C	01	08A	225.000	B
12335F	MEADOW VALLEY IRRIGATION	DARKE CR	1605	07C	01	08A	145.000	B
12386F	PINEVIEW RANCHES LTD	BEATON CR	3753	13F	01	08A	80.000	B
12403F	GARDEN BAY WATERWORKS DIS	GARDEN BAY LK	92.F.070.2.4	29D	01	08A	1000.000	B
12505C	B C HYDRO & POWER AUTH	BRIDGE R	92.J.086.2.3	02D	1	08A	572000.000	B
12523F	VERNON IRRIGATION DISTRIC	KING EDWARD LK	8466	30C	01	08A	1070.000	B
12524F	COLDSTREAM RANCH LTD	KING EDWARD LK	8466	30C	01	08A	30.000	B
12628C	BERWIN WILLIAM E & MARILY	LINCOLN CR	92N/NE(9-E)	05A	1	08A	60.000	B
12698								
12701F	WEST KOOTENAY POWER & LIG	KOOTENAY R	5301A	18N	01	08A	210000.000	B
12704	WKPL CORRA LINN	KOOTENAY R						
12706	WKPL - SOUTH SLOCAN	KOOTENAY R						
12750F	B C HYDRO & POWER AUTH	JORDAN R	92B/5 & 92B/12	31B	01	08A	24506.000	B
12750A	B C HYDRO & POWER AUTH	JORDAN R						
12750B	B C HYDRO & POWER AUTH	JORDAN R						
12750C	B C HYDRO & POWER AUTH	JORDAN R						
12788C	DOUGLAS LAKE CATTLE CO	QUILCHENA CR	92H/16W(F)	21D	1	08A	500.000	B
12832C	PENTICTON CITY OF	PENTICTON CR	82E/11W(E)	07B	1	08A	800.000	B
13102C	INDIAN AFFAIRS BRANCH	PYE CR	6059	21B	1	08A	30.000	B
13341F	ROSEN PHIL & DOROTHY	PETERSON CR	92P/SE	13B	01	08A	122.500	B
13370C	HAMEL RICK	WISE CR	1122	05E	1	08A	30.000	B
13594C	NICOLA RANCH LTD	NICOLA LK	92.I.017.4.1	21A	1	08A	28000.000	B
13609C	MOON AGNES	MELDRUM CR	93B/SE	05A	1	08A	90.000	B
13659C	GREENLAKE FOREST PRODUCTS	CUTOFF VALLEY CR	331	02B	1	08A	100.000	B
13701C	MOON MELVILLE C S ESTATE	MELDRUM CR	1056	05A	1	08A	100.000	B
13816F	BAKKER TED C & MAUREEN A	GUICHON CR	6014	21A	01	08A	49.500	B
13827F	BUFF LARRY P	PRINGLE CR	3735	13E	01	08A	127.300	B
13828F	MITCHELL JACK	PRINGLE CR	3735	13E	01	08A	82.200	B
13853F	SCHERRER HERBERT W	MONTE CR	3704	13D	01	08A	194.700	B
13855F	SPELLER DANIEL & SANDRA &	MONTE CR	3704	13D	01	08A	207.900	B
13873F	CUMBERLAND VILLAGE OF	CUMBERLAND CR	92F/11E	17C	01	08A	435.000	B
13972	"BARKERVILLE RECREATION"	GROUNDHOG L						
13996C	MIDDLETON ORVILLE W	PITIN CR & PITIN LK	92H/9E(G)	07C	1	08A	100.000	B
14085C	CAMPBELL CREEK W U C	SHUMWAY LK, TRAPP LK, ETC	92.I.060.3.2	13D	1	08A	5270.000	B
14089	COMMINCO - BRILLIANT	KOOTENAY R						
14104F	WICKLOW WEST HOLDINGS LTD	DROPPINGWATER CR	3695	13D	01	08A	55.000	B
14212C	INDIAN AFFAIRS BRANCH	BORLAND CR	1122	05E	1	08A	60.000	B
14231F	CHINOOK COVE RANCHES LTD	PETERSON CR	92P/SE	13B	01	08A	188.500	B
14397C	MOON MELVILLE C S ESTATE	MACKIN CR	93.B.028	05D	1	08A	250.000	B
14399C	MOON AGNES	MACKIN CR	93.B.028	05D	1	08A	250.000	B
14401C	MOON MELVILLE C S ESTATE	MACKIN CR	93.B.028	05D	1	08A	250.000	B
14403C	REAY ERIC	MACKIN CR	93.B.028	05D	1	08A	250.000	B
14404C	HAMEL RICK	WISE CR	1122	05E	1	08A	100.000	B
14419C	WESTBANK IRRIGATION DISTR	WEBBER CR	8499	30D	1	08A	180.000	B
14456C	POWELL RIVER DISTRICT OF	HAMMIL LK	92F/16-D	29D	1	08A	250.000	B
14541F	WICKLOW WEST HOLDINGS LTD	DROPPING WATER CR & ADAMS	3695	13D	01	08A	60.000	B
14556		MCLEESE CR						
14566C	KAUFMAN ELWOOD A & MARGIE	MCLEESE CR	1158A	05D	1	08A	500.000	B
14567C	B C HYDRO & POWER AUTH	SUGAR LK	82L/SE	30B	1	08A	20000.000	B
14567A	B C HYDRO & POWER AUTH	SUGAR LK						
14567B	B C HYDRO & POWER AUTH	SUGAR LK						
14569C	SUMMERLAND DISTRICT OF	TROUT CR	92H/9E(H)	07C	1	08A	2630.000	B
14627C	PENTICTON CITY OF	ELLIS CR	82E/6W(F)	07B	1	08A	225.000	B
14640F	MACMILLAN BLOEDEL & POWEL	LOIS R	92.F.079.3.4	29C	1	08A	450000.000	B
14668F	WEYERHAEUSER CANADA LTD	KANEVALE CR	6059	21B	01	08A	54.000	B

DAMS

Lic.#	Owner	Source	Location	Precinct	#PRP	PRP	QTY	Units
14779F	PROULX JOHN A SR ET AL	PETERSON CR	92P/SE	13B	01	08A	20.000	B
14781C	STAFFORD WILLIAM H	CHIMNEY CR	1138	05E	1	08A	150.000	B
14785C	WEINGART G	ROSA CR	92.0.100	05E	1	08A	60.000	B
14825F	ALLENDALE W U C	SHUTTLEWORTH CR	82E/6W(D)	07A	01	08A	350.000	B
14827F	ALLENDALE W U C	SHUTTLEWORTH CR	82.E.033.1.4	07A	01	08A	139.000	B
14833C	MICHELL NOEL H	WALLOPER CR	6017	21A	1	08A	160.000	B
14852F	LOVGREN HERBERT L	LIME CR & ALEX CR	82M/SW	13A	01	08A	60.000	B
14863F	BOWERS ARTHUR A	NED ROBERTS CR	3758	13F	01	08A	50.000	B
14930F	CHUTTER RANCH LTD	HAMILTON CR	92.I.017.1.2	21B	01	08A	186.000	B
15025C	WINFIELD & OKANAGAN CENTR	SWALWELL LK	8467	30C	1	08A	4172.000	B
15064F	TRONSON W U C	BX CR	8582D	30F	01	08A	192.000	B
15078F	JACOBSON ERIC & DOROTHY M	CHAPMAN CR	92H/9E(H)	07C	01	08A	100.000	B
15083F	COWICHAN GOLF & COUNTRY C	RYAN SPRS	8701A	31A	01	08A	7.500	B
15175C	WEST VANCOUVER DISTRICT O	DICK CR	8101A	29E	1	08A	150.000	B
15181C	MILLER RANCHES LTD	HOWARTH CR	6060	21B	1	08A	100.000	B
15217C	KAMLOOPS CITY OF	JAMIESON CR	3829	13H	1	08A	5000.000	B
15220C	KAMLOOPS CITY OF	DAIRY CR	3821	13H	1	08A	100.000	B
15237C	QUILCHENA CATTLE CO LTD	MCCULLOSH CR	92H/15E(B)	23D	1	08A	90.000	B
15240C	B C HYDRO & POWER AUTH	SUGAR LK	82L/SE	30B	1	08A	100000.000	B
15304C	DARFIELD IRRIG DIST	LINDQUIST CR	92P/SE(B-C)	13B	1	08A	37.500	B
15445C	WESTBANK IRRIGATION DISTR	PAYNTER LK	8500	30D	1	08A	350.000	B
15446C	WESTBANK IRRIGATION DISTR	ALOCIN CR & ETC	8500	21D	1	08A	500.000	B
15505F	RUSS ARTHUR B & SIDNEY E	HAGAN CR	87933	31B	01	08A	25.000	B
15540F	JOHANNES PRINZ VON THURN	FULFORD CR	92.B.073.4.3	31C	01	08A	25.000	B
15549C	CANABO CATTLE CO	PORTER LK	92P/SE	02B	1	08A	200.000	B
15559F	HAUGHTON JAMES H & MARY E	HAUGHTON POND	92.I.059.4.1	13D	01	08A	5.000	B
15565C	VERNON IRRIGATION DISTRIC	B X CR	8582B	30F	1	08A	1550.000	B
15721C	JAMES CATTLE CO LTD	MEASON CR	92.0.070	05C	1	08A	100.000	B
15817F	FROLEK RANCH & SAWMILLS L	DROPPINGWATER CR	3697	13D	01	08A	50.000	B
15819F	FROLEK RANCH & SAWMILLS L	DROPPINGWATER CR	3697	13D	01	08A	67.200	B
15899F	JOETTE VENTURES LIMITED	CRAWFORD SLOUGH	9417B	30A	01	08A	2.000	B
15909C	GLENMORE IRRIGATION DISTR	KELOWNA CR	8412	30A	1	08A	2550.000	B
15911F	OLD ROPER FIELD RANCH LTD	LYONS CR	3758	13F	01	08A	60.000	B
15957C	SOUTH EAST KELOWNA IRRIGA	HYDRAULIC KLO ETC CR	82.E.084.2.3	30A	1	08A	10200.000	B
15959C	SOUTH EAST KELOWNA IRRIGA	KLO CR	82E/11-W(F)	30A	1	08A	400.000	B
15963C	SOUTH EAST KELOWNA IRRIGA	BROWNE LK	82.E.084.2.3	30A	1	08A	500.000	B
15968F	SUNNY HILLS RANCH LTD	USSHER CR	92.I.059.2.1	13D	01	08A	20.000	B
15974C	SOUTH EAST KELOWNA IRRIGA	PEAR LK	82.E.084.2.3	11E	1	08A	600.000	B
15976C	SOUTH EAST KELOWNA IRRIGA	HAYNES LK	82.E.084.2.3	11E	1	08A	2000.000	B
16090C	GARTHWAITE GORDON & LARRY	DUFUIS CR	92I/7W	21A	1	08A	100.000	B
16271C	GLENMORE IRRIGATION DISTR	KELOWNA CR	8412	30A	1	08A	750.000	B
16273C	ANDERSON HUGH A	OELRICH CR	6969	23C	1	08A	40.000	B
16296C	GREATER VANCOUVER WATER D	CAPILANO R	8100	29E	1	08A	47000.000	B
16299C	GREATER VANCOUVER WATER D	SEYMOUR R	8100	29E	1	08A	55000.000	B
16407F	INDIAN AGENCY-OKANAGAN BA	EQUESIS CR	82L/5EH	30F	01	08A	1000.000	B
16414A	SUMMERLAND IRRIGATION	TROUT CREEK						
16414B	SUMMERLAND IRRIGATION	TROUT CREEK						
16414C	SUMMERLAND IRRIGATION	TROUT CREEK						
16414D	SUMMERLAND IRRIGATION	TROUT CREEK						
16414E	SUMMERLAND IRRIGATION	TROUT CREEK						
16416C	SUMMERLAND DISTRICT OF	ENEAS CR & FINLAY CR	1603	07C	1	08A	2000.000	B
16558C	ASHCROFT RANCH	MEDICINE CR	92I/14W(D)	02B	1	08A	700.000	B
16592F	MACMILLAN BLOEDEL & POWEL	LOIS R	92.F.079.3.4	29D	01	08A	19000.000	B
16626F	BELLDEE HOLDINGS LTD	SAM HILL CR	92.G.007.1.2	20D	01	08A	50.000	B
16719C	KERLUKE WILLIAM JAMES	LUKE CR	82.E.053.1.4	07B	1	08A	50.000	B
16783C	RAINER HANS H	NELSON CR	3638B	13B	1	08A	50.000	B
16854	WKPL - GOAT	GOAT R						
16876F	WALHACHIN RANCHES INC	UPPER RANCH CR	92I/10W(E)	13F	01	08A	179.000	B
16927F	DAVIS DALE R & THERESA R	SPA CR	3728	13E	01	08A	40.000	B
16955F	DAVIS THERESA R & PRESTON	SPA CR	3728	13E	01	08A	30.750	B

DAMS

Lic.#	Owner	Source	Location	Precinct	#PRP	PRP	QTY	Units
16956F	JONES DAVID	SPA CR	3728	13E	01	08A	100.000	B
16958F	JONES DAVID	SPA CR	3728	13E	01	08A	60.000	B
16979C	DEWDNEY-ALOUETTE REGIONAL	CANNELL LK	92G/SE	20I	1	08A	650.000	B
17009C	VINSULLA IRRIGATION DISTR	ANNIE CR	3818	13H	1	08A	200.000	B
17064C	T L SOLMER ORCHARDS LTD	LAMBLY CR	82L/4-E(B)	30D	1	08A	100.000	B
17089C	ELLISON IRRIGATION DISTRI	KELOWNA CR	82.E.094.3.3	30A	1	08A	850.000	B
17091C	ELLISON IRRIGATION DISTRI	KELOWNA CR	8412	30A	1	08A	250.000	B
17183F	FAYE WALTER & SUSAN C	BELLEVUE CR	8417B	30A	01	08A	.340	B
17185F	FOSTER LAWRENCE & MARILYN	BELLEVUE CR	8417B	30A	01	08A	.250	B
17187F	CRESSWELL RICHARD A & RUT	BELLEVUE CR	8417B	30A	01	08A	.340	B
17197F	FINLAY DAIRY FARM	WALLACE DITCH	8793B	31B	01	08A	10.000	B
17220F	SELLERS WAYNE	SEPARATION LKS ETC	6963	23C	01	08A	94.500	B
17263F	MACMILLAN BLOEDEL LTD	FULLER LK	8718D	31A	01	08A	100.000	B
17264	WESTAR PULP	WOODFIBRE CR						
17293C	VINSULLA IRRIGATION DISTR	MARTIN MEADOW CR ETC	3630	13B	1	08A	400.000	B
17295C	B C HYDRO & POWER AUTH	CAMPBELL LK	92K/3-D	17C	1	08A	251000.000	B
17295A	B C HYDRO & POWER AUTH	CAMPBELL LK						
17295B	B C HYDRO & POWER AUTH	CAMPBELL LK						
17350C	MAHON HUGH M & PAMELA H	BUNTING CR	1162	05D	1	08A	250.000	B
17350F	WESTERN PULP INC-SQUAMISH	WOODFIBRE CR	8237	29C	01	08A	295.000	B
17529F	COLDSTREAM DISTRICT OF	VERNON CR & DUTEAU CR	8469A	30C	01	08A	135.000	B
17534C	FROLEK CATTLE CO LTD	LAC DU BOIS CR	92I/16W(D)	13J	1	08A	84.000	B
17560F	INDIAN AFFAIRS BRANCH	KWAKIUTL CR	103A/SE	05F	01	08A	23.000	B
17583C	WESTBANK IRRIGATION DISTR	LAMBLY CR	8492C	30D	1	08A	1305.000	B
17586C	CHASE IRRIGATION DISTRICT	CHASE CR	3710	13D	1	08A	500.000	B
17615	B C HYDRO	STAVE R						
17616C	INDIAN AFFAIRS BRANCH	DOG CR	92.0.060	05C	1	08A	90.000	B
17619C	MORROW MERVIN L & NANCY I	JUMELLE LK	1161	05D	1	08A	80.000	B
17636	"ROSE VALLEY IRRIGATION"	LAMBLY CR						
17696C	DIAMOND S RANCH LTD	PAVILION LK	251	02J	1	08A	1600.000	B
17697C	DIAMOND S RANCH LTD	PAVILION LK	251	02J	1	08A	400.000	B
17736	"NARAMATA"	ROBINSON CR						
17772C	SOUTH EAST KELOWNA IRRIGA	LONG MEADOW LK	82.E.084.2.3	30A	1	08A	500.000	B
17774	COMINCO - WANETA	PER D'OREILLE CR						
17842C	VERNON IRRIGATION DISTRIC	ABERDEEN LK & HADDO LK	82L/3E(W)	30B	1	08A	20000.000	B
17842A	VERNON IRRIGATION DISTRIC	ABERDEEN LK & HADDO LK						
17842B	VERNON IRRIGATION DISTRIC	ABERDEEN LK & HADDO LK						
17856C	PEACHLAND IRRIGATION DIST	PEACHLAND CR	9494	30D	1	08A	200.000	B
17857C	PEACHLAND IRRIGATION DIST	PEACHLAND CR	8497	30D	1	08A	1000.000	B
17991C	ANDREWS THOMAS P & RUTH E	BESSETTE CR	5228D	30B	1	08A	320.000	B
18001F	UNION BAY WATERWORKS DIST	HART CR	92F/10	17C	01	08A	560.000	B
18074C	B C TIMBER LTD	TAYLOR LK & PRUDHOMME LK	6702	25C	1	08A	6000.000	B
18074	B C TIMBER LTD	TAYLOR LK & PRUDHOMME LK						
18074	B C TIMBER LTD	TAYLOR LK & PRUDHOMME LK						
18127F	SEATON PHILIP E & GERALDI	MILNE CR	4810	17A	01	08A	10.000	B
18239C	BLACK MOUNTAIN IRRIGATION	FISH HAWK LK	82L/2-W(C)	30A	1	08A	1500.000	B
18252F	SPELLER DANIEL & SANDRA &	MONTE CR & MONTE LK	3735	13D	01	08A	104.000	B
18254F	KOOISTRA HENRY & MARY A	MONTE CR & MONTE LK	3735	13D	01	08A	25.000	B
18302F	GRAHAM GEORGE M	MURE BR	8793B	31B	01	08A	6.000	B
18343C	PENTICTON CITY OF	STEWARD CR	82E/6W(E)	07B	1	08A	300.000	B
18381C	CONNOR FARMS LTD	COGHLAN CR	92.G.018.1	20D	1	08A	50.000	B
18422C	SUNSHINE COAST REGIONAL D	TROUT LK	92.G.051.1.2	29D	1	08A	40.000	B
18513C	IDEAL CEMENT CO (B C) LTD	EMILY LK	92.F.078.1.4	29B	1	08A	70.000	B
19526								
18530F	CHINOOK COVE RANCHES LTD	NELSON CR	3638B	13B	01	08A	16.500	B
18532F	CHINOOK COVE RANCHES LTD	NELSON CR	3638B	13B	01	08A	12.500	B
18649F	POIRIER JAMES E	PAUL LK	3815A	13H	01	08A	.670	B
18660C	VERNON CITY OF	DIXON CR	82L/6E(B)	30F	1	08A	120.000	B
18756C	SALMON ARM DISTRICT OF	E CANOE CR	82L/11E(G)	13E	1	08A	14.720	B
18813C	ENSIGN RUSSELL H & DOREEN	23 ACRE MEADOW	8491	30B	1	08A	130.000	B

DAMS

Lic.#	Owner	Source	Location	Precinct	#PRP	PRP	QTY	Units
[illegible]	WIKKERINK JOHN H	SHEARING CR	8701H	31A	01	08A	20.000	B
[illegible]								
[illegible]	Y S RANCH LTD	N FIVE MILE CR	1126	05E	01	08A	84.000	B
[illegible]	BOWERS ARTHUR A	PENDLETON CR	3758	13F	1	08A	57.000	B
[illegible]	WIKKERINK JOHN H	SHEARING CR	8701H	31A	01	08A	20.000	B
[illegible]	NORTH COWICHAN DISTRICT O	CROFTON LK	8708B	31A	1	08A	500.000	B
[illegible]	DOUGLAS LAKE CATTLE CO	FRANK WARD CR	6159	21D	01	08A	237.000	B
[illegible]	BLACKMORE J BRANDON	RYKERT CR	5175C	15E	01	08A	12.000	B
19450F	MILLWARD NORMA M	PETERSON CR	3751	13F	01	08A	7.300	B
19451F	MILLWARD NORMA M	ANDERSON CR	3698	13D	01	08A	7.800	B
19452F	GAMBLE HOLDINGS LTD	ANDERSON CR	3698	13D	01	08A	207.400	B
19453F	GAMBLE HOLDINGS LTD	PETERSON CR	3751	13F	01	08A	207.400	B
[illegible]	CUMBERLAND VILLAGE OF	PERSEVERANCE CR	92F/10 & 11E	17C	1	08A	150.000	B
[illegible]	TRAVERS EDWARD S	TRAVERS CR	8792A	31B	01	08A	27.000	B
[illegible]	COLLETT ALLAN	GODEY CR	6055	21B	1	08A	80.000	B
19629C	REAY ERIC	MACKIN CR	93.B.029	05D	1	08A	150.000	B
[illegible]	WILSON WOODROW R & ROSE L	SPARKS CR	0384	02F	1	08A	50.000	B
19747F	BOWERS ARTHUR A	CHERRY CR	3758	13F	01	08A	57.500	B
19805F	JOSEPHY PETER	JOSEPHY SLOUGH	93.B.098	26B	01	08A	6.000	B
19847A	ALCAN	NECHAKO R						
19847B	ALCAN	NECHAKO R						
19847C	ALCAN	NECHAKO R						
19847D	ALCAN	NECHAKO R						
19847E	ALCAN	NECHAKO R						
19847F	ALCAN	NECHAKO R						
[illegible]	BRIGHTMAN RONALD F & FRED	BAKER CR	3093	[illegible]	01	08A	45.300	B
[illegible]	WILLIS ROBERT L & ELIZABE	FIFTYNINE CR	335A	02B	01	08A	6.110	B
[illegible]	SINMAX CREEK W U C	SINMAX CR	82M/SW	17A	1	08A	447.700	B
[illegible]	ELKINK RANCH LTD	TESTALINDEN CR	1502	07A	01	08A	45.000	B
[illegible]	CEDAR VALLEY DAIRY LTD	EQUESIS CR	82L/5E(H)	30F	1	08A	100.000	B
[illegible]	CUMMING M I & JOHNSTONE M	JOSEPHINE CR	92.G.034.1.3	29C	01	08A	1.000	B
[illegible]	CUMMING M I & JOHNSTONE M	JOSEPHINE CR	92.G.034.1.3	29C	01	08A	.600	B
[illegible]	CUMMING M I & JOHNSTONE M	JOSEPHINE CR	92.G.034.1.3	29C	01	08A	.600	B
[illegible]	CUMMING M I & JOHNSTONE M	JOSEPHINE CR	92.G.034.1.3	29C	01	08A	.300	B
[illegible]	CUMMING M I & JOHNSTONE M	JOSEPHINE CR	92.G.034.1.3	29C	01	08A	1.500	B
[illegible]	FROLEK RANCH & SAWMILLS L	CAMPBELL CR	92.I.059.2.3	[illegible]	1	08A	15.000	B
[illegible]	CRIDDLE PERCY N	ALLAN SPR	8793A	31B	01	08A	18.000	B
[illegible]	ROGERS GWYNNETH	JOSEPHINE CR	92.G.034.1.3	29C	01	08A	.500	B
[illegible]	GRANFIELD CYNTHIA P	MANLEY CR	8750C	[illegible]	01	08A	30.000	B
[illegible]	STRUTHER CATTLE CO	BADGER CR	3630	[illegible]	1	08A	45.000	B
[illegible]	GRANFIELD CYNTHIA P	MANLEY CR	8750C	[illegible]	01	08A	13.000	B
[illegible]	DAY EPHRIAM A	DAY POND	8422A	[illegible]	1	08A	15.000	B
[illegible]	EIGELSHOVEN FRITZ	CHIMNEY CR	92.0.100	05E	01	08A	45.000	B
[illegible]	SOUTH EAST KELOWNA IRRIGA	FISH LK	82.E.084.2.3	30A	1	08A	175.000	B
[illegible]	ENVIRONMENT CANADA	WEAVER CR	92.H.031.2.3	20-	01	08A	2160.000	B
[illegible]	FROLEK CATTLE CO LTD	STUMPLAKE CR	6151	[illegible]	1	08A	800.000	B
[illegible]	WICKLOW WEST HOLDINGS LTD	STUMPLAKE CR	6151	[illegible]	1	08A	400.000	B
[illegible]	HIGGINS STAN	BOOTH CR	1344	[illegible]	1	08A	30.000	B
[illegible]	FAIRVIEW HEIGHTS IRRIGATI	OTTER CR	6996A	[illegible]	1	08A	2600.000	B
[illegible]	PRINCETON STOCK RANCH LTD	STEVENSON CR	6964	[illegible]	1	08A	50.000	B
[illegible]	HUTCHINSON SCOTT & FREDER	SPRING BR	3701	[illegible]	01	08A	120.000	B
[illegible]	HUTCHINSON SCOTT	SPRING BR						
[illegible]	BLANC LOUIS C	HAZEL CR & BLABURN SLOUGH	3707	[illegible]	01	08A	40.000	B
[illegible]	BARKOWSKY JOHN & MYRNA	DEMPSEY CR	1142	05E	01	08A	60.000	B
[illegible]	BARKOWSKY JOHN & MYRNA	DEMPSEY CR	1142	05E	01	08A	100.000	B
[illegible]	INDIAN AFFAIRS BRANCH	ANAHIM CR	93.B.014	05A	1	08A	320.000	B
[illegible]	WEYERHAEUSER CANADA LTD	FRESHET CR	6059	[illegible]	1	08A	80.000	B
[illegible]	B C HYDRO & POWER AUTH	BUTTLE LK	92F/NW	[illegible]	1	08A	360000.000	B
[illegible]	GARDNER RANCH LIMITED	QUENVILLE CR	6010	[illegible]	1	08A	300.000	B
[illegible]	MICHELL THOMAS G	TELEGRAPH ROAD DITCH	8793B	31B	01	08A	35.000	B

DAMS

Lic.#	Owner	Source	Location	Precinct	#PRP	PRP	QTY	Units
20759F	1849 FLYING U RANCH LTD	BOYD CR & WILKINSON LK	337	02B	01	08A	40.000	B
20781C	WICKLOW WEST HOLDINGS LTD	FRISKEN CR	6151	21D	1	08A	160.000	B
20892C	INDIAN AFFAIRS BRANCH	MCDOUGALL CR	6492	30D	1	08A	620.000	B
20923C	ALLENDALE W U C	SHUTTLEWORTH CR	82E/6W(D)	07A	1	08A	50.000	B
20969F	SCHILLING BRUNO F/ULRICH	LINDQUIST CR & SMITH LK	92P/SE(8-C)	13B	01	08A	150.000	B
20972F	CHINOOK COVE RANCHES LTD	NELSON CR & POSBY LK	3638B	13B	01	08A	50.000	B
20973F	BAIRD THOMAS S	NELSON CR	3638B	13B	01	08A	20.000	B
21022C	KAMMERER HERMAN J	PATTON LK	1166	05D	1	08A	30.000	B
21086F	PROULX RANCH LTD	PETERSON CR	92P/SE	13B	01	08A	84.000	B
21092F	SALLE VOLKMAR A R/M	NELSON CR	3638B	13B	01	08A	20.000	B
21094F	SALLE VOLKMAR A R/M I	NELSON CR	3638B	13B	01	08A	20.000	B
21096F	SALLE VOLKMAR A R/M I	NELSON CR	3638B	13B	01	08A	26.000	B
21099F	GUNTHER ROMARIE F	FOURSOME LK	5152A	18D	01	08A	1.000	B
21101F	EDWARDS JOHN F	FOURSOME LK	5152A	18D	01	08A	1.000	B
21103F	SKINNER RUSSELL E	FOURSOME LK	5152A	19D	01	08A	2.000	B
21105F	BINETTE IRENE M	FOURSOME LK	5152A	19D	01	08A	1.000	B
21114F	MILBURN WILLIAM L	LINDQUIST CR & SMITH LK	92P/SE(8-C)	13B	01	08A	62.500	B
21124F	MACDOUGALL WALLACE J	PETERSON CR	92P/SE	13B	01	08A	100.000	B
21150F	MISSION VIEW HOMES LTD	BELLEVUE CR	8417B	30A	01	08A	3.250	B
21152F	AVERY ELDRIDGE F & JOY E	BELLEVUE CR	8417B	30A	01	08A	13.050	B
21164C	LADYSMITH TOWN OF	HOLLAND CR	4800	17A	1	08A	200.000	B
21184C	SUNNY HILLS RANCH LTD	EAST SLOUGH & WEST SLOUGH	3693	13D	1	08A	20.000	B
21200F	BEPPLE CHRISTIAN & JULIA	CARABINE CR	92I/15W(C)	13J	01	08A	55.000	B
21238F	MICHELL NOEL H	RUSH CR	3751	13F	01	08A	90.000	B
21322C	FLATT HILARY C	HOLMWOOD SLOUGH #1 & 2	3704	13D	1	08A	36.000	B
21336C	CARIBOO LAKE LAND CO LTD	TIN CUP CR	92P/6E-5W	02B	1	08A	100.000	B
21338C	GREEN-MON INVESTMENTS LTD	DINGWALL CR	92.P.082.4	05E	1	08A	40.000	B
21364F	EIGELSHOVEN FRITZ	CHIMNEY CR	92.0.100	05E	01	08A	32.500	B
21418	RIBCO LEASING	RAGING R						
21424C	SOUTH VERNON IRRIGATION D	B X CR	8582D	30F	1	08A	240.000	B
21507C	SUNNY HILLS RANCH LTD	UPPER SEPARATION LK	3693	13D	1	08A	12.000	B
21537F	MCGREGOR OPAL K	PETERSON CR	3751	13F	01	08A	32.100	B
21538F	MCGREGOR OPAL K	ANDERSON CR	3698	13D	01	08A	32.100	B
21539F	HERON DAVID L & HEATHER D	PETERSON CR	3751	13F	01	08A	31.200	B
21540F	HERON DAVID L & HEATHER D	ANDERSON CR	3698	13D	01	08A	31.200	B
21572F	GARDENS OF GETHSEMANI	TITMAN CR	92.G.007.3.1	20D	01	08A	12.700	B
21606F	SKEENA MARKETING LTD	GARDOM CR	85253	30B	01	08A	.160	B
21621F	RIBCO LEASING LTD	RAGING R	92L/SW	01B	01	08A	1300.000	B
21624F	GREATER VICTORIA WATER DI	SOOKE R	8795	31B	01	08A	42000.000	B
21631F	GREATER VICTORIA WATER DI	GOLDSTREAM R & WAUGH CR	92.B.043.3.1	31E	01	08A	13600.000	B
21631	GREATER VICTORIA WATER DI	GOLDSTREAM R & WAUGH CR						
21631A	GREATER VICTORIA WATER DI	GOLDSTREAM R & WAUGH CR						
21631B	GREATER VICTORIA WATER DI	GOLDSTREAM R & WAUGH CR						
21631C	GREATER VICTORIA WATER DI	GOLDSTREAM R & WAUGH CR						
21631D	GREATER VICTORIA WATER DI	GOLDSTREAM R & WAUGH CR						
21631E	GREATER VICTORIA WATER DI	GOLDSTREAM R & WAUGH CR						
21645	B C HYDRO	SPILLIMACHEEC R						
21684F	MACDOUGALL WALLACE J	PETERSON CR	92P/SE	13B	01	08A	30.000	B
21686C	THOMSON LAND & CATTLE	SWORD CR	1054	05A	1	08A	70.000	B
21688C	THOMSON LAND & CATTLE	SWORD CR	1054	05A	1	08A	80.000	B
21691F	CORBOULD DAVID	PALMER RANCH BR	3814A	13H	01	08A	9.500	B
21693C	STEVES HOLDINGS LTD	CULTUS LK	382	02F	1	08A	30.000	B
21711C	ALLENDALE W U C	SHUTTLEWORTH CR	82E/6W(D)	07A	1	08A	250.000	B
21712	B C HYDRO	SETON CR						
21807C	WINFIELD & OKANAGAN CENTR	VERNON CR	8463C	30C	1	08A	507.000	B
21933C	CUMBERLAND VILLAGE OF	VANWEST LKS	92F/10 & 11E	17C	1	08A	100.000	B
22031C	PARKE GORDON H S	WHITE ROCK CR	325	02E	1	08A	30.000	B
22056C	KENRICK LAND & KATTLE CO	CHINA CABIN CR	93A/6W(D)	05D	1	08A	60.000	B
22066C	PRIDY MICHAEL	MILEFIVE CR	93A/5W(E)	05D	1	08A	90.000	B
22143	"PORT MELLON INDUST."	RAINY R						

DAMS

Lic.#	Owner	Source	Location	Precinct	#PRP	PRP	QTY	Units
22143	"PORT MELLON INDUST."	RAINY R						
22163C	PIKE MOUNTAIN RANCH LTD	OTTER CR	6992	23D	1	08A	60.000	B
22168C	LUDWIG FRITZ W & LUCILLE	AUGUST CR	92.I.005.4.3	21S	1	08A	50.000	B
22174C	LOWREY IAN A	TIMOTHY CR	92P/14W	05E	1	08A	240.000	B
22199C	GREENLAKE FOREST PRODUCTS	130 MILE POST LK	300	02B	1	08A	100.000	B
22273C	GREATER NANAIMO WATER DIS	S NANAIMO R	92F/1	17A	1	08A	2460.000	B
22285C	B C HYDRO & POWER AUTH	CHEAKAMUS R ETC.	92.G.093.3.4	29C	1	08A	45000.000	B
22393C	GILLESPIE ROSS G	PROUTON CR	1167	05D	1	08A	240.000	B
22408C	VAUGHAN & RUSSELL FARMS	CHRISTIAN CR	6969	23C	1	08A	50.000	B
22429C	GIBRALTAR MINES LIMITED	PIERCE CR	93.B.049	26B	1	08A	30.000	B
22457C	MULVAHILL RANDOLPH F	MAXWELL CR	93B/SW(5-E)	26A	1	08A	200.000	B
22505C	ASHCROFT RANCH	MEDICINE CR	92I/14W(D)	02B	1	08A	750.000	B
22568C	YELLOW POINT LODGE LTD	YELLOW POINT BR	4802F	17A	1	08A	6.000	B
22581C	B C HYDRO & POWER AUTH	CAMPBELL R ETC	92K/3-D	17C	1	08A	800000.000	B
22586C	GREATER NANAIMO WATER DIS	CHASE R	4804D	17A	1	08A	50.000	B
22587C	GREATER NANAIMO WATER DIS	S NANAIMO R	92F/1(A)	17A	1	08A	100.000	B
22673C	HIDDEN BAR RANCH LTD	RATNIP CR	82E/12-H	07B	1	08A	130.000	B
22721C	NORTH COWICHAN DISTRICT O	HOLYOAK LK	5719A	31A	1	08A	1000.000	B
22751	"CHEMAINUS DOMESTIC"	HOLYOAK LK						
23001C	NORTH COWICHAN DISTRICT O	CROFTON LK	5708B	31A	1	08A	160.000	B
23070C	BLACK MOUNTAIN IRRIGATION	MISSION CR	82L/3-E(A)	30A	1	08A	100.000	B
23071	"KELOWNA IRRIG."	OELSO CR						
23085C	B C FOREST PRODUCTS LTD	COWICHAN R	92.C.091.2.1	31A	1	08A	32000.000	B
23087C	MACMILLAN BLOEDEL LTD	SPROAT LK	92.F.026.3.4	01A	1	08A	20000.000	B
23128C	IDEAL CEMENT CO B C LTD	PAXTON LKS	92.F.078.1.2	29G	1	08A	205.000	B
23169	B C HYDRO	QUINSAM R						
23170C	B C HYDRO & POWER AUTH	QUINSAM R	92K/3-D	17C	1	08A	10000.000	B
23220C	B C HYDRO & POWER AUTH	ASH R	92F/SWE	01A	1	08A	62000.000	B
23317C	INDIAN AFFAIRS BRANCH	EQUESIS CR	82L/5E(H)	30F	1	08A	262.000	B
23320C	INDIAN AFFAIRS BRANCH	EQUESIS CR	82L/5E(H)	30F	1	08A	329.000	B
23473C	SAN JOSE CATTLE CO LTD	FELKER CR	1124	05E	1	08A	30.000	B
23488C	SALTAIR WATERWORKS DISTRI	STOCKING CR	4800	17A	1	08A	100.000	B
23493C	NORTH COWICHAN DISTRICT O	BANON CR	8716A	31A	1	08A	44.000	B
23552	B C HYDRO	BRIDGE R						
23754		PROVIDENCE CR						
23906C	B C HYDRO & POWER AUTH	CLOWHOM R	92.G.073.1.2	29D	1	08A	85000.000	B
23921C	LARSON FLORENCE & DEARING	LUTTMER LK	3824	13H	1	08A	10.000	B
24067C	CHERRY CREEK WATERWORKS D	COLD CR	92.F.027.3.3	01A	1	08A	200.000	B
24166C	SAN JOSE CATTLE CO LTD	KNIFE CR	93A/4E(A)	05E	1	08A	800.000	B
24170C	BUCKSKIN LAND & CATTLE CO	JEFFERY CR	1056	05A	1	08A	15.000	B
24317C	NANAIMO REGIONAL DISTRICT	ENOS LK	4809D	17A	1	08A	140.000	B
24353C	SUNNY HILLS RANCH LTD	ANDERSON CR	3693	13D	1	08A	20.000	B
24354C	SUNNY HILLS RANCH LTD	ANDERSON CR	3693	13D	1	08A	99.000	B
24386C	WINEGLASS CATTLE CO LTD	DURRELL CR	92.O.087	05A	1	08A	60.000	B
24454C	ROYAL COLWOOD GOLF & COUN	COLWOOD LK	92.B.043.2.3	31B	1	08A	50.000	B
24500C	MULVAHILL WILLIAM W	ROSS CR	93B/SW	26A	1	08A	687.000	B
24510C	GREATER VANCOUVER WATER D	SEYMOUR R	92G/7-E	29E	1	08A	19150.000	B
24592C				20I	1	04A	40.000	B
24592C	GENSTAR CORPORATION	STAVE R	5891	20I	1	08A	600.000	B
24716C	HOOD POINT IMPROVEMENT DI	HONEYMOON LK	92.G.044.1.1	29C	1	08A	.500	B
24718C	HOOD POINT IMPROVEMENT DI	HONEYMOON LK	92.G.044.1.1	29C	1	08A	.500	B
24720C	HOOD POINT IMPROVEMENT DI	HONEYMOON LK	92.G.044.1.1	29C	1	08A	.500	B
24722C	HOOD POINT IMPROVEMENT DI	HONEYMOON LK	92.G.044.1.1	29C	1	08A	.500	B
24724C	HOOD POINT IMPROVEMENT DI	HONEYMOON LK	92.G.044.1.1	29C	1	08A	.500	B
24726C	HOOD POINT IMPROVEMENT DI	HONEYMOON LK	92.G.044.1.1	29C	1	08A	.500	B
24728C	HOOD POINT IMPROVEMENT DI	HONEYMOON LK	92.G.044.1.1	29C	1	08A	.500	B
24730C	HOOD POINT IMPROVEMENT DI	HONEYMOON LK	92.G.044.1.1	29C	1	08A	.500	B
24732C	HOOD POINT IMPROVEMENT DI	HONEYMOON LK	92.G.044.1.1	29C	1	08A	.500	B
24734C	HOOD POINT IMPROVEMENT DI	HONEYMOON LK	92.G.044.1.1	29C	1	08A	.500	B
24736C	HOOD POINT IMPROVEMENT DI	HONEYMOON LK	92.G.044.1.1	29C	1	08A	.500	B

DAMS

Lic.#	Owner	Source	Location	Precinct	#PRP	PRP	QTY	Units
24738C	HOOD POINT IMPROVEMENT DI	HONEYMOON LK	92.6.044.1.1	29C	1	08A	.500	B
24740C	HOOD POINT IMPROVEMENT DI	HONEYMOON LK	92.6.044.1.1	29C	1	08A	.500	B
24742C	HOOD POINT IMPROVEMENT DI	HONEYMOON LK	92.6.044.1.1	29C	1	08A	.500	B
24744C	HOOD POINT IMPROVEMENT DI	HONEYMOON LK	92.6.044.1.1	29C	1	08A	.500	B
24746C	HOOD POINT IMPROVEMENT DI	HONEYMOON LK	92.6.044.1.1	29C	1	08A	.500	B
24748C	HOOD POINT IMPROVEMENT DI	HONEYMOON LK	92.6.044.1.1	29C	1	08A	.500	B
24750C	HOOD POINT IMPROVEMENT DI	HONEYMOON LK	92.6.044.1.1	29C	1	08A	.500	B
24752C	HOOD POINT IMPROVEMENT DI	HONEYMOON LK	92.6.044.1.1	29C	1	08A	.500	B
24754C	HOOD POINT IMPROVEMENT DI	HONEYMOON LK	92.6.044.1.1	29C	1	08A	.500	B
24756C	HOOD POINT IMPROVEMENT DI	HONEYMOON LK	92.6.044.1.1	29C	1	08A	.166	B
24758C	HOOD POINT IMPROVEMENT DI	HONEYMOON LK	92.6.044.1.1	29C	1	08A	.166	B
24760C	HOOD POINT IMPROVEMENT DI	HONEYMOON LK	92.6.044.1.1	29C	1	08A	.166	B
24762C	HOOD POINT IMPROVEMENT DI	HONEYMOON LK	92.6.044.1.1	29C	1	08A	.166	B
24764C	HOOD POINT IMPROVEMENT DI	HONEYMOON LK	92.6.044.1.1	29C	1	08A	.166	B
24766C	HOOD POINT IMPROVEMENT DI	HONEYMOON LK	92.6.044.1.1	29C	1	08A	.166	B
24768C	HOOD POINT IMPROVEMENT DI	HONEYMOON LK	92.6.044.1.1	29C	1	08A	.166	B
24770C	HOOD POINT IMPROVEMENT DI	HONEYMOON LK	92.6.044.1.1	29C	1	08A	.166	B
24772C	HOOD POINT IMPROVEMENT DI	HONEYMOON LK	92.6.044.1.1	29C	1	08A	.166	B
24774C	HOOD POINT IMPROVEMENT DI	HONEYMOON LK	92.6.044.1.1	29C	1	08A	.166	B
24776C	HOOD POINT IMPROVEMENT DI	HONEYMOON LK	92.6.044.1.1	29C	1	08A	.166	B
24778C	HOOD POINT IMPROVEMENT DI	HONEYMOON LK	92.6.044.1.1	29C	1	08A	.166	B
24780C	HOOD POINT IMPROVEMENT DI	HONEYMOON LK	92.6.044.1.1	29C	1	08A	.166	B
24782C	HOOD POINT IMPROVEMENT DI	HONEYMOON LK	92.6.044.1.1	29C	1	08A	.166	B
24784C	HOOD POINT IMPROVEMENT DI	HONEYMOON LK	92.6.044.1.1	29C	1	08A	.166	B
24786C	HOOD POINT IMPROVEMENT DI	HONEYMOON LK	92.6.044.1.1	29C	1	08A	.166	B
24788C	HOOD POINT IMPROVEMENT DI	HONEYMOON LK	92.6.044.1.1	29C	1	08A	.166	B
24790C	HOOD POINT IMPROVEMENT DI	HONEYMOON LK	92.6.044.1.1	29C	1	08A	.166	B
24792C	HOOD POINT IMPROVEMENT DI	HONEYMOON LK	92.6.044.1.1	29C	1	08A	.166	B
24794C	HOOD POINT IMPROVEMENT DI	HONEYMOON LK	92.6.044.1.1	29C	1	08A	.166	B
24796C	HOOD POINT IMPROVEMENT DI	HONEYMOON LK	92.6.044.1.1	29C	1	08A	.166	B
24798C	HOOD POINT IMPROVEMENT DI	HONEYMOON LK	92.6.044.1.1	29C	1	08A	.166	B
24843C	VANDERBURGH ALAN E	CHIMNEY CR & RES	1137	05E	1	08A	75.000	B
24872	"WEST VAN DOMESTIC"	DICK CR						
24896	"NANAIMO RECREATION"	MCGARRIGLE CR						
25020C	BOLTON BRUCE N & ELEANOR	EQUESIS CR	82L/5-E(H)	30F	1	08A	375.000	B
25175C	MLASKO HUBERT & MARY L	SPA CR	3728	13E	1	08A	42.000	B
25187C	BICKERTON CHARLES G & JAN	COTTLE CR	4807F	17A	1	08A	10.000	B
25235C	PENTICTON CITY OF	PENTICTON CR	82E/11W(E)	07E	1	08A	305.000	B
25247	B C HYDRO	CRANBERRY CR						
25277C	FULFORD HARBOUR WATERWORK	LAKE WESTON	92.B.073.4.4	31C	1	08A	40.000	B
25320C	FREDERICKSON HAROLD T	BRUCE CR	92.F.080.1.1	29C	1	08A	10.000	B
25339C	PARKS BRANCH	SCOTT-GOLDIE CR	81000	29E	1	08A	4.600	B
25420C	TUCKER CLARK E SR & VERNA	FRIZZI CR	920/NE(16-B)	05C	1	08A	16.000	B
25489C	DOG CREEK RANCH LTD	MAYFIELD LK	92.O.090	05C	1	08A	70.000	B
25799C	JAY-RAY ENTERPRISES LTD	OTSON CR	93A/6W(D)	05C	1	08A	50.000	B
25834C	HUMPHREY HOWARD P	HOWARD POND	3750	13F	1	08A	40.000	B
25837C	INDIAN AGENCY-WILLIAMS LA	PATRICK CR	920/NE(16-B)	05C	1	08A	75.000	B
25851C	HOOD POINT IMPROVEMENT DI	HONEYMOON LK	92.6.044.1.1	29C	1	08A	.166	B
25924C	MCMILLAN CHARLES	HAUGHTON GULCH	92.I.059.4.1	13C	1	08A	15.000	B
25926C	MCMILLAN CHARLES	MCLEOD GULCH	92.I.059.4.1	13C	1	08A	10.500	B
25960C	REYNOLDS HARRY D & CATHER	S FRENCH BAR CR ETC	920/SE	03C	1	08A	100.000	B
26114C	ENVIRONMENT CANADA	QUALICUM R	92F/7	17A	1	08A	142000.000	B
26114	ENVIRONMENT CANADA	QUALICUM R						
26114	ENVIRONMENT CANADA	QUALICUM R						
26137C	PENTICTON CITY OF	PENTICTON CR	15500	07E	1	08A	50.000	B
26170C	LOZIER JACK & ELLEN S	PICKARD CR	93.B.049	26E	1	08A	480.000	B
26171		FORESTRY CR						
26254C	FROLEK CATTLE CO LTD	STUMPLAKE CR	6151	21C	1	08A	300.000	B
26297C	WICKLOW WEST HOLDINGS LTD	STUMPLAKE CR	6151	21C	1	08A	150.000	B
26328	COPPER BEACH EST.	PARK LANE L						

DAMS

Lic.#	Owner	Source	Location	Precinct	#PRP	PRP	QTY	Units
26348C	STEPHENSON DENE H	STEPHENSON BR	92L/12E(A)	01B	1	08A	1.000	B
26375C	NIKKELS WILLIAM B	PILGRIM CR	92.B.033.3.4	31B	1	08A	5.000	B
26591C	MACKENZIE GORDON W & SHAR	MACKENZIE LK	1161	05D	1	08A	50.000	B
26597C	JACKSON HOPE	HOOK CR	8750L	31C	1	08A	20.000	B
26599C	JACKSON ANNE	HOOK CR	8750L	31C	1	08A	20.000	B
26634	"PRINCE RUPERT INDUS"	RAINBOW L						
26661C	MCMILLAN CHARLES	MCLEOD GULCH	92.I.059.4.1	13D	1	08A	10.500	B
26765C	ALLISON LAKE IMPROVEMENT	ANDERSON CR	6974	23C	1	08A	25.000	B
26787C	CRAVEN FARM LTD	HOLLINGS CR	8751C	31C	1	08A	10.000	B
26955C	LASQUETI LAND CO LTD	HADLEY LK	92F/8-F	17C	1	08A	36.000	B
27066C	B C HYDRO & POWER AUTH	UPPER/LOWER ARROW LK ETC	82K/12W	18C	1	08A	7100000.000	B
27067C	B C HYDRO & POWER AUTH	DUNCAN LK & R	4010	14B	1	08A	1400000.000	B
27068C	B C HYDRO & POWER AUTH	COLUMBIA R & TRIBUTARIES	83DSE	10E	1	08A	7000000.000	B
27211C	MOON REXFORD A	THORNTON CR	93.B.020.1.3.2	05E	1	08A	20.000	B
27217C	PORT ALBERNI CITY OF	MCFARLAND CR	21	01A	1	08A	840.000	B
27254C	R K PROPERTIES LTD	VENABLES LK & CR	92I/11W(C)	02E	1	08A	150.000	B
27287C	JACOBSEN EINAR M	BIG LAKE CR	93A/5W(E)	05D	1	08A	6.000	B
27355C	KOWALEWSKI JURGEN F	ERHARD BR	93.G.086	24E	1	08A	1.000	B
27398C	WATT WILLIAM A	TUCKER CR & TRAFFELLS CR	3631D	13B	1	08A	50.000	B
27399C	DOUBLE DIAMOND RANCH LTD	DOG CR	92.O.070	05C	1	08A	50.000	B
27400C	JAMES CATTLE CO LTD	DOG CR	92.O.070	05C	1	08A	50.000	B
27492C	SANDNER BROS LUMBER CO	CHRISTINA CR & ANGELO CR	3000F	11A	1	08A	10.000	B
27574		TWIN CR						
27652C	LE DUC DOUGLAS ESTATE OF	ROUND CR	8592	30F	1	08A	125.000	B
27662C	RANCH POINT ESTATES LTD	SCHOONER CR	4809D	17A	1	08A	10.000	B
27722C	B C HYDRO & POWER AUTH	PEACE R & TRIB	93B.010	24C	1	08A	32000000.000	B
27724C	SUNSHINE VALLEY IMPROVEME	GILL CR	92P/NE(9-G)	13C	1	08A	20.000	B
27726C	GARDNER RANCH LTD	GUICHON CR	92.I.036.4.2	21A	1	08A	213.000	B
27732C	KARDUM MARKO	SANDHILL CR	8793C	31B	1	08A	5.000	B
27747C	UNION BAY WATERWORKS DIST	HART CR	92F/10	17C	1	08A	160.000	B
27819C	REUTER WINFRIED G & ASTRI	DOG CR	92.O.070	05C	1	08A	50.000	B
27822C	COMINCO LTD	NO LOON LK & ONE LOON LK	92I/10W(D)	21A	1	08A	250.000	B
27948C	MILL BAY WATERWORKS DISTR	SHAWNIGAN CR & LK	8750J	31C	1	08A	1000.000	B
28273C	RANGE BRANCH	TALAPUS CR	6053	21B	1	08A	12.000	B
28273C				21B	2	01A	2000.000	D
28274C	RANGE BRANCH	OLUK CR	6053	21B	1	08A	8.000	B
28274C				21B	2	01A	2000.000	D
28276C	ANDERSON JEAN M	GILLIS CR	6061	21B	1	08A	2.000	B
28372C	PRINCETON STOCK RANCH	BASELY CR	6960	23C	1	08A	10.000	B
28639C	BOLTZ DANIEL P	HOAS CR	3061	11C	1	08A	18.000	B
28641C	BOLTZ DANIEL P	CASTLEMAN CR	3061	11C	1	08A	2.000	B
28643	B C HYDRO	S CRANBERRY CR						
28772C	COOPER HURD M	CULTUS LK	382	02F	1	08A	6.000	B
28789C	NANAIMO REGIONAL DISTRICT	ENOS LK	4809D	17A	1	08A	140.000	B
28888C	SCHWEB HUBERT & STELLA M	BESSETTE CR	82L/3E(H)	30B	1	08A	20.500	B
28915C	SANDBERG ALBERT L	CHIPKA CR	82.G.033	06J	1	08A	25.000	B
28917C	TANNER CHARLES E	CHIPKA CR	82.G.033	06J	1	08A	25.000	B
28935C	HEICHMAN CLINTON L	MCKAY CR	252	02J	1	08A	80.000	B
28957C	LYON LAND & CATTLE CO LTD	BOTTLE CR	1162	05D	1	08A	337.000	B
29000C	HOOPER WILLIAM A L & HARL	HAYES CR	92.H.069.4.3	23C	1	08A	80.000	B
29026C	BROOK EDGAR J	MCDOWELL CR & RESERVOIR	93.L.076	12C	1	08A	70.000	B
29103C	WESTMIN RESOURCES LTD-WES	TENNENT CR	92F/NW	17C	1	08A	3000.000	B
29127C	STRONG ALBERT E & HILDA	PAXTON CR	3704	13D	1	08A	70.000	B
29130C	GRAVES ART & DONNA	MARTIN CR	3705	13D	1	08A	3.600	B
29169C	LARSON NELS	BRODERICK CR	3840	13I	1	08A	1.000	B
29197C	GLENMORE IRRIGATION DISTR	KELOWNA CR	8426B	30A	1	08A	772.000	B
29226C	GRAWEHR WALTER	LIDEN POND	334	02B	1	08A	35.000	B
29257C	HOOD POINT IMPROVEMENT DI	HONEYMOON LK	92.G.044.1.1	29C	1	08A	.166	B
29259C	HOOD POINT IMPROVEMENT DI	HONEYMOON LK	92.G.044.1.1	29C	1	08A	.166	B
29261C	HOOD POINT IMPROVEMENT DI	HONEYMOON LK	92.G.044.1.1	29C	1	08A	.166	B

DAMS

Lic.#	Owner	Source	Location	Precinct	#PRP	PRP	QTY	Units
29263C	HOOD POINT IMPROVEMENT DI	HONEYMOON LK	92.G.044.1.1	29C	1	08A	.166	B
29265C	HOOD POINT IMPROVEMENT DI	HONEYMOON LK	92.G.044.1.1	29C	1	08A	.166	B
29330C	FOX LEWIS F	DRY CR	3703	13D	1	08A	30.000	B
29340C	CHARLTON WILLIAM J	CHARLTON CR & POND	3703	13D	1	08A	5.500	B
29343C	FLATT HILARY C	MONTE CR	3704	13D	1	08A	80.000	B
29452C	ELLIS JOCELYNE M	DENNY BR	3825	13H	1	08A	2.500	B
29464C	FISHER GILBERT W & BARBAR	HODGKINSON CR	92.P.091.4	05E	1	08A	80.000	B
29535C	PLUMMER EDWARD W	MCINNES LAKE	93A/5W(E)	05D	1	08A	60.000	B
29542C	B C FOREST PRODUCTS LTD	COWICHAN R	92.C.090.2.1	31A	1	08A	17700.000	B
29574C	OYAMA IRRIGATION DISTRICT	KALAMALKA LK & WOOD LK	8469A	30C	1	08A	1000.000	B
29628C	PARSONS MICHAEL C & ELAIN	DERENZY LK	82E/6W	07B	1	08A	10.900	B
29630C	SPIELDIENER FRANZ	DERENZY LK	82E/6W	07B	1	08A	6.500	B
29632C	SPIELDIENER FRANZ	DERENZY LK	82E/6W	07B	1	08A	3.900	B
29636C	SPIELDIENER FRANZ	DERENZY LK	82E/6W	07B	1	08A	5.600	B
29640C	SPIELDIENER FRANZ	DERENZY LK	82E/6W	07B	1	08A	17.900	B
29658	ANYOX	DIANE CR						
29694C	DYCK JAMES W & PAULINE	HARRY BR	92.P.092.1	05E	1	08A	100.000	B
29738C	O'DARE LEO P	S SISTERS CR	93.B.089	26B	1	08A	2.000	B
29776C	CLINTON VILLAGE OF	CLINTON CR	333	02B	1	08A	9.000	B
29799C	LINDE KENNETH & KATHEY	ST PETER BR	92.O.090	05C	1	08A	1.000	B
29821C	LADYSMITH TOWN OF	HOLLAND CR	4801	17A	1	08A	100.000	B
29826C	MARTIN CLIFFORD F & ETHEL	MAUDE BR	92.F.057.2.2	17C	1	08A	5.000	B
29828C	ENVIRONMENT CANADA	WOLF LK	92F/14E	17C	1	08A	3200.000	B
29847C	SUMMERLAND DISTRICT OF	TROUT CR	92H/NE	07C	1	08A	750.000	B
29860C	MEADOW VALLEY IRRIGATION	FINLAY CR & LAPSLEY CR	1605	07C	1	08A	200.000	B
29900C	FROLEK CATTLE CO LTD	DROPPINGWATER CR	3697	13D	1	08A	70.000	B
29903C	R A STEELE DEVELOPMENTS L	CANOE CR	3725A	13E	1	08A	20.000	B
29966C	IMPERIAL LIMESTONE CO	WOODPECKER SWAMP	92.F.078.1.4	29B	1	08A	10.000	B
30000C	INDIAN GARDENS RANCH LTD	UPPER RANCH CR	3757	13F	1	08A	45.000	B
30087C	MILLER J HOWARD	BEATON CR	3753	13F	1	08A	20.700	B
30170C	PRENTICE ROBERT W	PROUX CR	92.K.031.3.2	17B	1	08A	1.000	B
30180C	HOOD POINT IMPROVEMENT DI	HONEYMOON LK	92.G.044.1.1	29C	1	08A	.166	B
30182C	HOOD POINT IMPROVEMENT DI	HONEYMOON LK	92.G.044.1.1	29C	1	08A	.166	B
30187C	WESTAR MINING LIMITED	AQUEDUCT CR	1929	03E	1	08A	5.000	B
30196C	B C BUILDINGS CORPORATION	LOON CR & LOON LK	332A	02B	1	08A	1700.000	B
30199C	JOHNSTON ALEXANDER M	GILL CR	92P/NE(9-6)	13C	1	08A	140.000	B
30290C	RIDDELL DORIS M	SUPPLY CR	8266W	08F	1	08A	140.000	B
30323C	MCNAB ARCHIBALD	MCGUIRE SWAMP	4802F	17A	1	08A	20.000	B
30328C	PENTICTON CITY OF	PENTICTON CR	82E/11W(E)	07B	1	08A	9200.000	B
30381C	HOOD POINT IMPROVEMENT DI	HONEYMOON LK	92.G.044.1.1	29C	1	08A	.166	B
30432C	DOME PETROLEUM LTD	HOGG CR	94.A.050	22B	1	08A	100.000	B
30464C	GLEN MARGUERITE C	FIFTYSEVEN CR	335A	02B	1	08A	250.000	B
30469C	ASHCROFT RANCH	OREGON JACK CR	362	02E	1	08A	150.000	B
30475C	NEALE BROS RANCH	CHAPMAN SLOUGH	92.I.016.2.2	21B	1	08A	63.000	B
30484C	MERKLEY HAROLD K & JEAN	WINQUIST LK	93A/6W(C)	05D	1	08A	10.000	B
30573C	DOUGLAS LAKE CATTLE CO	GREAVES CR	3739	13E	1	08A	20.000	B
30575C	DOUGLAS LAKE CATTLE CO	GREAVES CR	3739	13E	1	08A	38.000	B
30659C	KERSHAW ROBERT T/A A	BUSE CR	3701	13D	1	08A	2.000	B
30659C				13D	2	01A	1000.000	D
30674C	POOLEY WILFRED J & LENORE	HECTOR CR	6008	21A	1	08A	80.000	B
30678C	POOLEY WILFRED J & LENORE	POOLEY CR	92I/2-E(6)	21A	1	08A	50.000	B
30680C	Y S RANCH LTD	FIVE MILE CR	1126	05E	1	08A	116.000	B
30786C	SUMMERLAND DISTRICT OF	WHITEHEAD LK	92H/NE	07C	1	08A	222.000	B
30787C	SUMMERLAND DISTRICT OF	TROUT CR	92H/NE	07C	1	08A	250.000	B
30815C	HUHN JOHN A & CAROLINE M	MEGER CR	93.K.004	10A	1	08A	2.000	B
30819C	ENVIRONMENT CANADA	NADINA L	93.E.096	10A	1	08A	16000.000	B
30827C	STANLEY KLIMEK ENTERPRISE	FICHTL CR	93.G.085	24E	1	08A	2.500	B
30852C	LUCAS HOWARD	CARABINE CR	92I/15W(C)	13C	1	08A	75.000	B
30887C	KUIPERS MARIUS L	BELLEVUE CR	8417B	30A	1	08A	6.535	B
30890C	SCHLEITH KURT & VERENA	BELLEVUE CR	8417B	30A	1	08A	.800	B

DAMS

Lic.#	Owner	Source	Location	Precinct	#PRP	PRP	QTY	Units
30937C	COLUMBIA READY-MIX LTD	PEATT SWAMP	92.B.043.1.4	31B	1	08A	40.000	B
31073C	ONWARD CATTLE CO LTD	JONES CR	1122	05E	1	08A	600.000	B
31092C	INVERMERE DISTRICT OF	GOLDIE CR	2962	10H	1	08A	250.000	B
31112C	VANDERBURGH ALAN E	CHIMNEY CR	92.O.100	05E	1	08A	75.000	B
31154C	WILLIAMS LAKE CITY OF	WILLIAMS LK	93.B.020.1.2.4	05E	1	08A	1700.000	B
31156C	OVERLOOK RANCH LTD	LAC LA HACHE	92.P.082.4	05E	1	08A	80.000	B
31166C	JACK STEVEN L	JACK SWAMP	8793B	31B	1	08A	5.000	B
31195C	WAMAZ HOLDINGS INC	EQUESIS CR	82L/5-E(H)	30F	1	08A	80.000	B
31197C	BOLTON BRUCE N	EQUESIS CR	82L/5-E(H)	30F	1	08A	45.000	B
31277C	DOUBLE DIAMOND RANCH LTD	TINMUSKET CR	92.O.060	05C	1	08A	50.000	B
31324C	ENVIRONMENT CANADA	FULTON R	93L/16	12C	1	08A	76000.000	B
31324	ENVIRONMENT CANADA	FULTON R						
31324	ENVIRONMENT CANADA	FULTON R						
31326C	ENVIRONMENT CANADA	PINKUT CR	93K/6(C)	12C	1	08A	32000.000	B
31330C	WEINGART G	CHIMNEY CR	92.O.100	05E	1	08A	175.000	B
31388C	PAROLIN JEAN E/G E	SCHUBERT CR	6996	23D	1	08A	75.000	B
31409C	ASHCROFT RANCH	OREGON JACK CR	362	02E	1	08A	200.000	B
31414C	BODMAN GEOFFREY F & SHIRL	JAY BR	3816	13H	1	08A	10.000	B
31459C	CHICOINE J PAUL & TREVA B	SINKLER BR	93.K.001	12A	1	08A	10.000	B
31469C	PARKS BRANCH	KEARNS CR	82F/4E(G)	18K	1	08A	10.000	B
31518	"PEACHLAND MINE"	PEACHLAND CR						
31520C	BRENDA MINES LTD	MACDONALD CR & LK	82E/NW	30D	1	08A	2300.000	B
31631C	INDIAN AFFAIRS BRANCH	CORNWALL CR	92I/14W(D)	02E	1	08A	6.700	B
31636C	FORRISDAHL BEN & DONNA JE	FLATHER BR	3842A	13I	1	08A	10.000	B
31652C	LENNOX BERNARD W & JOSEPH	SHERWOOD CR	92.B.033.3.2	31B	1	08A	2.000	B
31654C	CABEEN WILLIAM R	GROUSE BR	92.B.032.3.2	31B	1	08A	10.000	B
31665C	PENDERGRAFT THEODORE W	HAYNES CR & BOOT LK	1500	07A	1	08A	265.000	B
31667C	UNIVERSAL SEARCH & RESEAR	PORTER SPR & PRATHER LK	1506	07A	1	08A	20.000	B
31688C	FRASERVIEW FARMS LIMITED	FOX SPR & HOUND SPR	9007JJ	26B	1	08A	3.000	B
31694C	MARTENS MARY E	PAUL LK	3815A	13H	1	08A	.670	B
31742	"KELSEY BAY DOMESTIC"	NEWCASTLE CR						
31818C	MANKE DALE	PAUL LK	3815A	13H	1	08A	.670	B
31845C	BELL GORDON JAMES	MADDEN SPR	1507	07A	1	08A	20.000	B
31932C	KELLY IRVIN C	LETTS BR	1509	07A	1	08A	2.000	B
31991C	PABLO MOUNTAIN CATTLE CO	WESTWICK LKS	1108	05E	1	08A	50.000	B
31997C	GREENWOOD MILDRED L	GROUSE CR	3842A	13I	1	08A	10.000	B
32054C	ASHCROFT RANCH	LONE TREE CR	363	02E	1	08A	145.000	B
32112C	MENKE HERMAN F/G	SHATFORD CR & MARRON R	1554	07B	1	08A	60.000	B
32114C	LEIR JAMES H	BROKEN CR	82E/5W(E)	23A	1	08A	500.000	B
32125C	VERNON IRRIGATION DISTRIC	DUTEAU CR	8430	30B	1	08A	2130.000	B
32129C	W C WOLFENDEN & SONS LTD	MCMURDO CR	2961	10H	1	08A	15.000	B
32141C	B C HYDRO & POWER AUTHORI	GALLAGHER CR	323	02	1	08A	90.000	B
32159C	PORTER ALEXANDER B	PORTER CR	4800	17H	1	08A	30.000	B
32227C	BRUASET JOHANNE	PINE CR	93B/8-A	05D	1	08A	40.000	B
32255C	RASHLEIGH JANET T	RASHLEIGH BR	8793B	31B	1	08A	10.000	B
32281C	L'HEUREUX JOSEPH & LORRAI	FIFTYNINE CR	335A	02B	1	08A	.070	B
32283C	L'HEUREUX HARRY	FIFTYNINE CR	335A	02B	1	08A	.070	B
32341C	OVERLOOK RANCH LTD	DIXON CR	1132	05E	1	08A	50.000	B
32345C	DU BOIS JACK V	MISSIONER CR	1141	05E	1	08A	40.700	B
32448C	EDGEWATER IMPROVEMENT DIS	MACAULAY CR	2951A	10H	1	08A	20.000	B
32457C	WILLIAMS LAKE GOLF & COUN	PAR CR	1120	05E	1	08A	1.000	B
32463C	INDIAN AFFAIRS BRANCH	PAUL CR	3815A	13H	1	08A	.700	B
32701C	TENBRINKE JOHN/J	ELK BR	92H/4-EF	20C	1	08A	15.000	B
32803C	J WILLIAM WIKKERINK FARMS	N TAGGART CR	8750K	31C	1	08A	40.000	B
32832C	GLANVILLE WILLIAM D	SINKLER BR	93.K.001	12A	1	08A	10.000	B
32894C	MCCLURE WILLIAM A & IRENE	MCCLURE CR	4804	17A	1	08A	5.000	B
32906C	COMPTON HORACE M	HORACE BR	8709A	31A	1	08A	20.000	B
32932C	WEST WILLIAM & ANGIE	BIELY CR	6991	23D	1	08A	100.000	B
32935C	LUNZMANN LUDWIG M & WINNI	BLUE SPRINGS CR	8438	30B	1	08A	75.000	B
33011C	TULAMEEN RESORTS LTD	OTTER LK	6996A	23D	1	08A	6.000	B

DAMS

Lic.#	Owner	Source	Location	Precinct	#PRP	PRP	QTY	Units
33019C	SAUNDERS ERNEST J	PAUL LK	3815A	13H	01	08A	.670	B
33021C	BOSSERT EDWIN D	PAUL LK	3815A	13H	01	08A	.670	B
33023C	MARTENS KENNETH W & LINDA	PAUL LK	3815A	13H	01	08A	.670	B
33025C	STEWART JEAN	PAUL LK	3815A	13H	01	08A	.670	B
33057C	SHUMUK IVAN/N	MAEBELLE BR	92.F.027.3.1	01A	01	08A	.500	B
33085C	LAKEVIEW IRRIGATION DISTR	LAMBLY CR	82L/4-E(B)	30D	01	08A	200.000	B
33111C	ENGINEERING BRANCH	VIENNA CR	93.G.077	24D	01	08A	17.000	B
33132C	COE PETER J & SUSAN A	MCLEAN CR	93.G.009	26B	01	08A	10.000	B
33178C	VANDENBERG TAMME	VANDENBERG CR	93.L.075	12C	01	08A	120.000	B
33202C	SOUTH PENDER HARBOUR WATE	HASLAM CR	92.G.061	29D	01	08A	150.000	B
33219C	DURANTE MARK R	PAUL LK	3815	13H	01	08A	.670	B
33255C	TAYLOR GREGORY	DESMOND BR	3705	13D	01	08A	1.000	B
33296C	MCLEOD DOLORES MRS	TINMILSH CR	6168	21D	01	08A	60.000	B
33302C	SETKA ROBERT D	PAUL LK	3815A	13H	01	08A	.670	B
33370C	PUBLIC WORKS DEPT OF (BC)	REEKIE CR	93.G.097	24D	01	08A	5.000	B
33405	"WESTBANK IRRIG."	BIT CR						
33406C	WESTBANK IRRIGATION DISTR	LAMBLY CR & N POWERS CR	8500	30D	01	08A	500.000	B
33450C	ARMSTRONG CITY OF	FORTUNECR&SILVER STAR LK	82L/6-E(H)	30G	01	08A	355.000	B
33452C	ROUND PRAIRIE WATERWORKS	FORTUNECR&SILVER STAR LK	82L/6E(H)	30G	01	08A	3.000	B
33454C	SILVER STAR WATERWORKS DI	FORTUNECR&SILVERSTAR LKS	82L/6E(H)	30G	01	08A	9.800	B
33456C	HIGHLAND PARK WATERWORKS	FORTUNECR&SILVERSTAR LKS	82L/6E(H)	30G	01	08A	7.200	B
33458C	PLEASANT VALLEY WATERWORK	FORTUNECR&SILVERSTAR LKS	82L/6E(H)	30G	01	08A	8.600	B
33544C	SCHWEB HUBERT & STELLA M	BESSETTE CR & NICKLEN LK	82L/3E(H)	30B	01	08A	38.000	B
33546C	LANSDOWNE WATERWORKS DIST	FORTUNECR&SILVERSTARLKS	82L/6E(H)	30G	01	08A	6.400	B
33570C	WILSON BRIAN G & JOAN	ROBBINS CR	3690	13D	01	08A	3.200	B
33575C	CUNNINGHAM JACK D	ROBBINS CR	3690	13D	01	08A	.900	B
33594C	NISBET GEORGE W & F PRISC	NISBET SPR	8750K	31C	01	08A	12.000	B
33632C	B C CATTLE CO LTD	INDIAN MEADOWS CR	273	02J	01	08A	300.000	B
33638C	PATENAUDE ELMER J	FIVE MILE CR	1126	05E	01	08A	285.000	B
33642C	VAN DER HEIDE SYTSE & MAA	WALKER CR	93A/5W(E)	05D	01	08A	60.000	B
33703C	WILLIS ROBERT L & ELIZABE	FIFTYNINE CR	335A	02B	01	08A	6.000	B
33712C	AUGUSTINE PHILIP J	RATDAM CR	93A/6W(E)	05D	01	08A	100.000	B
33714C	ENVIRONMENT CANADA	MCKINLEY LK	93A/SE(7-D)	05D	01	08A	3675.000	B
33763C	HUSHAM CREEK RANCH LTD	GOOSE CR	1132	05E	01	08A	8.000	B
33813C	ELLIS CHARLES K	BACON CR	1166	05D	01	08A	40.000	B
33872C	DUCKS UNLIMITED (CANADA)	MUENCH CR	92P/13E(B)	05E	01	08A	200.000	B
33898C	WOOLLEY JAMES E D	STODDART CR	94.A.026	22B	01	08A	40.000	B
33921C	PETERS IRENE	ASAHAL CR	1122	05E	01	08A	40.000	B
33989C	HERDE KARL	MUENCH CR	92P/13E(B)	05E	01	08A	400.000	B
33993C	CURRIE IAN H	MCLEESE CR	1158	05D	01	08A	375.000	B
34093C	CORNWALL SONIA & HUGH & M	BORLAND CR	1122	05E	01	08A	350.000	B
34124C	GARDNER RALPH J/D H	SPENCHA CR	93.F.081	12A	01	08A	5.000	B
34151C	JACOBSEN EINAR M	BACON CR	1166	05D	01	08A	40.000	B
34173C	GRIMSHIRE DONALD A & MILL	ANDREW BR	93.B.068	26A	01	08A	15.000	B
34179C	NOVAK NELLY	THREE MILE CR	94.A.057	22B	01	08A	4.000	B
34206C	STAFFORD ERIC	STAFFORD BR	92.O.100	05C	01	08A	25.000	B
34251C	DACK BRIAN	GARDOM CR	8524	30G	01	08A	20.000	B
34306C	GENSTAR CEMENT LTD	BAMBER CR	8751L	31C	01	08A	41.500	B
34308C	GENSTAR CEMENT LTD	SPECTACLE CR.OLIPHANT LK	8751K	31C	01	08A	165.000	B
34310C	PENDRAY FARMS LTD	AIRPORT CR	8793A	31B	01	08A	20.000	B
34314C	VAUGHAN & RUSSELL FARMS	S TREHEARNE CR	6969	23C	01	08A	80.000	B
34389C	HOOD POINT IMPROVEMENT DI	HONEYMOON LK	92.G.044.1.1	29C	01	08A	.166	B
34398C	SUMMERLAND DISTRICT OF	CRESCENT CR	1600	07C	01	08A	255.000	B
34399C	SUMMERLAND DISTRICT OF	CRESCENT CR	1600	07C	01	08A	1000.000	B
34400C	SUMMERLAND DISTRICT OF	TROUT CR	92H/NE	07C	01	08A	348.000	B
34453C	WOOD NORMAN	HUSHAM CR	1132	05E	01	08A	15.000	B
34475C	HOOD POINT IMPROVEMENT DI	HONEYMOON LK	92.G.044.1.1	29C	01	08A	.166	B
34609C	MALLARD DONALD C & GERTRU	QUIRK CR	1890	08D	01	08A	25.000	B
34616C	CUMBERLAND VILLAGE OF	PERSEVERANCE CR	92F/10 & 11E	17C	01	08A	150.000	B
34631C	GLENMORE IRRIGATION DISTR	KELOWNA CR	8426B	30A	01	08A	35.000	B

Lic.#	Owner	Source	Location	Precinct	#PRP	PRP	QTY	Units
34635C	SCHWEB HUBERT & STELLA M	NICKLEN LK	82L/3E(H)	30	01	08A	118.650	B
34687C	WALTON EDWARD J & EVA A	PAUL LK	3815A	13H	01	08A	.670	B
34699	"WINFIELD IRRIGATION"	BULMAN CR						
34701A	"O.K. CENTER IRRIGATION"	DUTEAU CR						
34701B	"O.K. CENTER IRRIGATION"	DUTEAU CR						
34716C	HOOD POINT IMPROVEMENT DI	HONEYMOON LK	92.G.044.1.1	29C	01	08A	.166	B
34721C	LINDE KENNETH & KATHEY	GODWIN LK	92.0.090	05C	01	08A	50.000	B
34751C	CURRIE EDITH M	HARDWICK CR	6963	23C	01	08A	60.000	B
34783C	MCLEOD RITA R	PAUL LK	3815A	13H	01	08A	.670	B
34830C	CHERRY CREEK WATERWORKS D	COLD CR	25	01A	01	08A	300.000	B
34832C	CANADIAN IMPERIAL BANK OF	SHINGLE CR	1557	07B	01	08A	100.000	B
34836C	MCCARTNEY MARY J &	YALAKOM R	107	02D	01	08A	5.000	B
34875C	BOYES JEANETTE F MRS	CAMEL CR	1003	05B	01	08A	120.000	B
34878C	GARTH ESTATES LTD	HOY BR	1121	05E	01	08A	25.000	B
34880C	KIRKWOOD GEORGE	PAUL LK	3815A	13H	01	08A	.670	B
34890C	PROULX JOHN A SR ET AL	PETERSON CR	92P/SE	13B	01	08A	200.000	B
34899C	LAKUSTA MICHAEL	STURT CR	8469	30C	01	08A	15.000	B
34958C	MARBLE COVE LOGGING CO (1	ROSARIO SWAMP	2	01A	01	08A	5.000	B
34986C	VERNON CITY OF	DUTEAU CR	8430	30	01	08A	1530.000	B
35006C	INDIAN AGENCY-PENTICTON B	SHINGLE CR	1557	07B	01	08A	1000.000	B
35010C	SIMPSON ROBERT	PAUL LK	3815A	13H	01	08A	.670	B
35030C	INDIAN AFFAIRS BRANCH	SPAHOMIN CR	6165	21D	01	08A	1500.000	B
35114C	DICKIE GLEN & KIM	HARTLEY BR	5883	20I	01	08A	12.000	B
35244C	WILKINSON SANDRA L	PAUL LK	3815A	13H	01	08A	.670	B
35361C	MCNEIL WILLIAM & ISABELLE	PAUL LK	3815A	13H	01	08A	.670	B
35363C	GODDARD ERNEST & BARBARA	PAUL LK	3815A	13H	01	08A	.670	B
35477C	HARRIES JOHN O	PAUL LK	3815A	13H	01	08A	.670	B
35515C	TAYLOR LAWRENCE D	GRAHAM CR	8793C	31B	01	08A	2.000	B
35541C	HART GEORGE F/V B	FORGIE CR	93.K.031	12A	01	08A	20.000	B
35561C	MILLWARD NORMA M	PETERSON CR	3750	13F	01	08A	1.000	B
35574C	MISSION VIEW HOMES	BELLEVUE CR	8417B	30A	01	08A	.810	B
35576C	PITNEY DOUGLAS W & HELEN	BELLEVUE CR	8417B	30A	01	08A	.780	B
35630C	ANDERSON WILLIAM H / M J	INKANEEP CR	1507	07A	01	08A	200.000	B
35674C	MEAD ELIZABETH	PAUL LK	3815A	13H	01	08A	.670	B
35723C	HOPKINS CRAIG T	PAUL LK	3815A	13H	01	08A	.670	B
35725C	SHANNON HAROLD A & MARGAR	PAUL LK	3815A	13H	01	08A	.670	B
35785C	DUCKS UNLIMITED (CANADA)	RAYFIELD R	92P/SE	02B	01	08A	120.000	B
35787C	DUCKS UNLIMITED (CANADA)	RAYFIELD R	92P/SE	02B	01	08A	30.000	B
35863C	B C HYDRO & POWER AUTHORI	S CRANBERRY CR	82L/9E(H)	27A	01	08A	11000.000	B
35887C	RIMICO HOLDINGS LTD	GARDOM POND	92.B.074.4.4	31C	01	08A	10.000	B
35891C	KELLY JAMES E & J CLAIRE	CENTRAL CR	8793C	31B	01	08A	.500	B
35899C	BENISCH JOSEPH & HILDEGAR	HART LK	1165	05D	01	08A	300.000	B
35954C	KOLONSKY CARL	FLINTOFF CR	92K/3-C	17C	01	08A	3.000	B
36059C	ABLITT LEONARD G	SCHOONOVER BR	1120	05E	01	08A	50.000	B
36092C	BOULTON GEORGE N & ERIC D	DICK CR	92G/4	17A	01	08A	27.000	B
36108C	TOWER STANLEY C	INDUSTRY BR	8402	30A	01	08A	40.000	B
36140C	SKRIVER RUTH	NORMAN BR	3691	13D	01	08A	.500	B
36151C	ANDERSON BERTHE & R J & A	TUNKWA CR	3761	13F	01	08A	50.200	B
36172C	NORTH VANCOUVER CITY OF	RICE LK	8100E	29E	01	08A	125.000	B
36268C	ALBERNI GOLF CLUB LTD	CHERRY CR	92.F.027.3.3	01A	01	08A	10.000	B
36315C	CLOW MAURICE J & MARY L	PAUL LK	3815A	13H	01	08A	.670	B
36339C	CECCARELLI PETER & JENEAN	NINETYTHREE MILE CR	92P/11E(B)	05B	01	08A	13.650	B
36354C	WINKEL FRANS K/M	LAVERN BR	8793C	31B	01	08A	6.000	B
36375	"KELOWNA IRRIGATION"	MISSION CR						
36396C	CARRIER EMILIE J	CAMPBELL CR	93.G.078	24D	01	08A	3.000	B
36429C	NEUBRAND EMIL	POWELL CR	5100A	18A	01	08A	5.200	B
36480C	ENVIRONMENT CANADA	DE MAMIEL CR	92.B.042.1.1	31B	01	08A	80.000	B
36487C	KNOTH THOMAS & CHRISTEL	HOSKIN BR	92.B.093.1.2	31C	01	08A	4.000	B
36520C	SEIDA ALFRED/C	THORGEIRSON CR	93.G.096	24E	01	08A	2.000	B
36569C	WYNNE DONALD	ATTWOOD CR	92P/11E(B)	05B	01	08A	80.000	B

DAMS

Lic.#	Owner	Source	Location	Precinct	#PRP	PRP	QTY	Units
36571C	LEVAR STANLEY D	SAUCIER CR	92P/SE	05E	01	08A	.670	B
36616C	REYNOLDS JAMES C & AGNES	STEWART CR	93G/15-W	24E	01	08A	3.000	B
36621C	WIKKERINK GERHARDUS B	TAGGART CR	8750K	31C	01	08A	30.000	B
37633	B C HYDRO KOOTENAY CANAL	KOOTENAY R						
36635C	CROLL ROBERT D & PATRICIA	WEST BR	8793B	31B	01	08A	12.000	B
36709C	HARPUR GERALD ST G	MYERS CR	3091	11D	01	08A	170.000	B
36739C	GARDNER MARIE B B	MCKAY CR	93B/NW	26A	01	08A	5.000	B
36750C	COOK PATRICK C & SANDRA M	ROBBINS CR	3690	13D	01	08A	1.400	B
36760C	SUNSHINE VALLEY IMPROVEME	GILL CR	92PINE(9-6)	13C	01	08A	33.000	B
36807C	RAUTENBERG FARM	INDIAN CR	94.A.037	22B	01	08A	10.000	B
36829C	RINGWOOD PATRICK & SHARON	CHIMNEY LK	1138	05E	01	08A	2.000	B
36884C	BOYES FRANK C & ANNE	LEE SPR	93.B.048	26A	01	08A	7.000	B
36916C	BARROW COLIN	CRAMER SWAMP	92.F.057.1.3	17C	01	08A	5.000	B
36954C	BEATTY CHARLES A	GAUVIN CR	93.K.022	12A	01	08A	2.000	B
36970C	WENNGATZ CONSTRUCTION & H	WHELAN CR	8403	30A	01	08A	10.000	B
36979C	WENNGATZ CONSTRUCTION & H	ROCKFACE CR	8403	30A	01	08A	10.000	B
37023C	STAFFORD ERIC	DE SOUS CR	92.O.100	05C	01	08A	50.000	B
37045C	WEST RICHARD ET AL	LALUWISSIN CR	344	02C	01	08A	1.330	B
37070C	SMITH VIOLET E	SCARF BR	8791E	31B	01	08A	.500	B
37104C	GIBSON HOWARD B	ROSARIO CR	93.J.008	24E	01	08A	35.000	B
37168C	CORNWALL SONIA & HUGH & M	JONES CR	1122	05E	01	08A	150.000	B
37176C	PEABODY ANNE A	PAUL LK	3815A	13A	01	08A	.670	B
37284C	WESTGLADE HOLDINGS LTD	WESTGLADE BR	4811	17A	01	08A	8.000	B
37293C	MCCLELLAND MARJORIE L	FINLAY BR & FINLAY LK	92.B.094.1.1	31C	01	08A	3.600	B
37295C	HALL ELIZABETH R & MURRAY	FINLAY BR & FINLAY LK	92.B.094.1.1	31C	01	08A	.400	B
37318C	HOLST MATHIAS M	PAUL LK	3815A	13A	01	08A	.670	B
37331C	FISH & WILDLIFE BRANCH	JEWEL LK	3063	11C	01	08A	110.000	B
37383C	HOOD POINT IMPROVEMENT DI	HONEYMOON LK	8220	29C	01	08A	.166	B
37418C	MARWALSKY HOLDINGS LTD	NOTT BR	92.B.032.3.4	31E	01	08A	2.000	B
37480C	WILMER WATERWORKS DISTRIC	WILMER CR	2953	10A	01	08A	150.000	B
37513C	DEKALB MINING CORPORATION	N INKIKUH CR	92I/6E(H)	02A	01	08A	200.000	B
37524C	WILDLIFE BRANCH (DUCKS)	REED CR	82.G.082	06A	01	08A	50.000	B
37563C	THOMSEN RALPH THOMAS	HOWARTH CR	6059	21E	01	08A	60.000	B
37571C	THOMSEN RALPH THOMAS	EDNA & ROTH LKS	6059	21E	01	08A	90.000	B
37582C	AVERY ELDRIDGE F & JOY E	BELLEVUE CR	8417B	30A	01	08A	21.560	B
37584C	HAHN WILLIAM J/P	BELLEVUE CR	8417B	30A	01	08A	3.380	B
37586C	J R POLLARD LTD	BELLEVUE CR	8417B	30A	01	08A	5.060	B
37606C	HELLIWELL MARGARET J	FINLAY LK	92.B.094.1.1	31C	01	08A	2.000	B
37625C	MILLS PETER J & RITVA K	JACKMAN BR	4822	17C	01	08A	8.000	B
37752C	SCOTT GEORGE A & CAROLINE	BELLEVUE CR	8417B	30A	01	08A	1.000	B
37755C	SCHLEITH KURT & VERENA	BELLEVUE CR	8417B	30A	01	08A	21.400	B
37758C	SCHLEITH KURT & VERENA	BELLEVUE CR	8417B	30A	01	08A	12.600	B
37767C	ELGIE ROBERT J & WINNIFRE	SAYER CR	4822	17C	01	08A	25.000	B
37831C	FANKHAUSERS HANS & IDA	CROSSMAN CR	8525	30E	01	08A	16.500	B
37841C	SOLTIS ANDREW JR & THERES	WESSELS CR	92.I.033.1.3	02C	01	08A	20.000	B
37904C	BUSSE NORMAN W	PAUL LK	3815A	13A	01	08A	.670	B
37908C	KINGSNORTH EDWARD L	PAUL LK	3815A	13A	01	08A	.670	B
37964C	MARI STEVEN R & JANET	CARLSON BR	8265	29C	01	08A	5.000	B
37988C	BARNES ALBERT H	CROSSMAN CR	8525	30E	01	08A	6.960	B
38035C	PRINCETON STOCK RANCH LTD	LAMONT CR	6965	22C	01	08A	40.000	B
38143C	STRUTHERS ELLEN C	PETERSON CR	92P/SE	13E	01	08A	12.500	B
38145C	KRATZER JOSEPH & WINIFRED	PETERSON CR	92P/SE	13E	01	08A	2.500	B
38147C	MCSAVANEY ALBERT M	PETERSON CR	92P/SE	13E	01	08A	1.250	B
38166C	QUINTAL EDWARD M	NINE MILE CR	1509	07A	01	08A	10.000	B
38180C	CURRIE EDITH M MRS	SUMMERS CR	92H/16W(D)	22C	01	08A	175.000	B
38593C	BLANC LOUIS C	MORRIS CR	3707	12C	01	08A	10.000	B
38639F	WESTVALE FOODS-DIV OF E C	D'HERBOMEZ CR	5880D	20C	01	08A	3.000	B
38636C	GIBRALTAR MINES LIMITED	E CUISSON CR	93.B.059	26E	01	08A	1000.000	B
38682C	CLARKE GARY	GIBBONS CR	93A/6W(C)	05E	01	08A	100.000	B
38706F	THOMAS RANCHES LTD	MCLEAN CR	82.E.033.1.4	07E	01	08A	150.000	B

DAMS

Lic.#	Owner	Source	Location	Precinct	#PRP	PRP	QTY	Units
38746C	CARWITHEN GORDON A	CARWITHEN SPR & SWAMP	4820	17C	01	08A	4.500	B
38812C	WENNGATZ CONSTRUCTION & H	MISSION CR	8406	30A	01	08A	400.000	B
38834F	WOOD LAKE IMPROVEMENT DIS	OYAMA CR	8466	30C	01	08A	1988.000	B
38871C	MARTENS ALLAN W	MURRAY CR	93.K.010	24E	01	08A	50.000	B
38893C	CRAWFORD J MICHAEL	PAUL LK	3815A	13H	01	08A	.670	B
38901C	MARTIN CLIFFORD F & ETHEL	CRAMER SWAMP	92.F.057.1.3	17C	01	08A	8.000	B
38969C	DAN-BAR DRILLING COMPANY	WOLF CR	82.G.082	08I	01	08A	60.000	B
39063C	DILTS DENNIS D	KRYS CR	82.G.024	06J	01	08A	20.000	B
39181F	JOHNSON ALBERT GEORGE EST	RATKI CR	3703	13D	01	08A	1.000	B
39183F	JOHNSON ALBERT GEORGE EST	JOHNSON SWAMP	3703	13D	01	08A	1.000	B
39209C	BROWN ANDREW P & JAMES A	DAYTON BR & MURRAY BR	4810	17A	01	08A	20.000	B
39229C	HOOD POINT IMPROVEMENT DI	HONEYMOON LK	92.G.044.1.1	29C	01	08A	.166	B
39233C	VAUX ALECK	VAUX CR	8703B	31A	01	08A	1.000	B
39276C	BAHNSEN DETLEF B & KATHLE	PAUL LK	3815A	13H	01	08A	.670	B
39341C	FERGUSON GODFREY D	VAUX CR & VAUX SWAMP	8703B	31A	01	08A	12.500	B
39432C	B C HYDRO & POWER AUTHORI	COLUMBIA R & TRIBUTARIES	83DSE	10E	01	08A	5000000.000	B
39533C	PLEASANCE KENNETH W & ERI	PLEASANCE BR	8794	31B	01	08A	1.500	B
39550C	CIRCLE THIRTEEN RANCH LTD	SHATFORD CR & MARRON R	1554	07B	01	08A	30.000	B
39566C	KUCHUK ALICE E	ALICE BR	3692	13D	01	08A	5.000	B
39651C	JAMES CATTLE CO LTD	HARPER CR & VERT LK	92.O.070	05C	01	08A	1000.000	B
39703F	HARRISON CHARLES W	HARRISON POND	92.B.083.3.2	31C	01	08A	15.000	B
39726C	MONEY RICHARD A & NOLA J	DYSON SPR	3815A	11A	01	08A	.670	B
39727C	HUGHES JAMES R	PAUL LK	3815A	13H	01	08A	.670	B
39774C	FUOCO JOHN	PAUL LK	3815A	13H	01	08A	.670	B
39776C	CAVE FRANK	PAUL LK	3815A	13H	01	08A	.670	B
39840C	BENOIT CECIL M	ANDERSON POND	4802F	17A	01	08A	7.500	B
39854C	HAMBLIN CHARLES D & DOUGL	BOYD CR	93.L.037	12C	01	08A	60.000	B
39864C	BEATTIE THOMAS D	PAUL LK	3815A	13H	01	08A	.670	B
39892C	THOMSON LAND & CATTLE CO	CORNELL CR	93.B.007	05A	01	08A	120.000	B
39972C	COULTON PATRICIA A	ANDERSON POND	4802F	17A	01	08A	2.500	B
40191F	KAUFMAN ELWOOD A & MARGIE	MCLEESE CR	1158A	05D	01	08A	1000.000	B
40300C	DOMAN GRANT M	DISPUTED CR/DISPUTED LKS	92P/11E(A)	05E	01	08A	120.000	B
40305C	DUBE DENNIS & JUDY	RASMUSSEN SPR	2951	10F	01	08A	2.500	B
40319C	SCHOOL DISTRICT NO 68 NAN	OVENDEN SPR	4802F	17A	01	08A	1.500	B
40362C	ELLIOTT C R	LEBANON CR	82.E.073.3.2	30A	01	08A	50.000	B
40381C	WILMSHURST GEORGE R	CRIPPLE CR	92.B.033.3.1	31B	01	08A	2.000	B
40383C	SIMONS THOMAS A	MEDELEC CR	92.B.084.1.3	31C	01	08A	3.500	B
40451C	FABRE DOUGLAS RONALD & MI	SHELFORD CR	93ENE	12A	01	08A	10.000	B
40458C	ROBERTSON JOHN R	ROBBINS CR	3690	13D	01	08A	6.600	B
40460C	COOK PATRICK C & SANDRA M	ROBBINS CR	3690	13D	01	08A	2.900	B
40496C	TORONTO DOMINION BANK	BADRY POND	6410	24D	01	08A	2.000	B
40578C	LUCAS HOWARD	CARABINE CR	92I/15W(C)	13J	01	08A	10.000	B
40582C	GORJEU ARMAND	RUMBOTTLE CR	92.F.078.1.4	29B	01	08A	.500	B
40598C	MIZERI LINDA	NOWICKI CR	93.P.070	22A	01	08A	1.500	B
40662C	CASSIDY JAMES D & OPAL P	CASSIDY BR	94.A.035	22B	01	08A	.500	B
40679C	SKRBINSEK WILLIAM & THERE	PIGEON CR	8493C	30D	01	08A	4.000	B
40685C	DOUGLAS ASA W & DOROTHY O	WALKER BR	92.B.083.3.4	31C	01	08A	.500	B
40922C	LUSK RICKY K	RICHARD SPR & HJELM BR	94.A.035	22B	01	08A	1.000	B
41015F	RHICARD STEVE	CASTELL BR	92G/4	17A	01	08A	.500	B
41070C	GORDON GRANVILLE J	ZIELINSKI SWAMP	92.F.047.4.3	17C	01	08A	9.000	B
41113C	GREATER NANAIMO WATER DIS	JUMP CR & JUMP LK	92F/1	17A	01	08A	10000.000	B
41123C	DANGERFIELD BERTHA A	PAUL LK	3815A	13H	01	08A	.670	B
41129C	RHOTHLHYND TIMOTHY	ILTCOOLA CR	6960	23C	01	08A	30.000	B
41131C	J R POLLARD LTD	BELLEVUE CR	8417B	30A	01	08A	.420	B
41155C	INDIAN AFFAIRS BRANCH	SLARKEDUS CR	103F/SE(5-D)	25B	01	08A	20.000	B
41216C	SURETTE HELEN	PAUL LK	3815A	13H	01	08A	.670	B
41224C	AHO AARO E ESTATE OF	DOOLE SPR	4802F	17A	01	08A	20.000	B
41348C	GREATER VICTORIA WATER DI	COUNCIL CR	8797	31B	01	08A	2300.000	B
41404C	BRUCE ALMA A MRS	BAKER CR	3093	11D	01	08A	40.000	B
41408C	BLACK MOUNTAIN IRRIGATION	MISSION CR	82L/2-W(C)	30A	01	08A	300.000	B

DAMS

Lic.#	Owner	Source	Location	Precinct	#PRP	PRP	QTY	Units
41411C	BLACK MOUNTAIN IRRIGATION	MISSION CR	82L/2-W(C)	30A	01	08A	200.000	B
41461C	JOHNSTON ALEXANDER M	LOLO CR	92P/NE(9-6)	13C	01	08A	1.340	B
41463C	JOHNSTON STANLEY & ELIZAB	LOLO CR	92P/NE(9-6)	13C	01	08A	.670	B
41475C	BENOIT JAMES L & CECILE M	ANDERSON CR	4802F	17A	01	08A	3.000	B
41510C	BLACKWELL ARTHUR C & EDWA	CAMPBELL CR	3691	13D	01	08A	15.000	B
41519C	BLOCK HELEN S	LOLO CR	92P/NE(9-6)	13C	01	08A	17.420	B
41531C	HERSLEV BORGE	LOLO CR	92P/NE(9-6)	13C	01	08A	.670	B
41547C	MORGAN HOWARD G	BELLEVUE CR	8417B	30A	01	08A	.840	B
41573C	FIORENTINO FRANK A & ANGE	SKI SLOUGH	1221B	06B	01	08A	10.000	B
41629C	MCFEE GORDON E	GRAHAM CR	93.L.010	12A	01	08A	2.000	B
41633C	QUANDT WERNER	GRAY CR	93.F.099	24E	01	08A	2.000	B
41646C	JONES J ORVAL & PHYLLIS M	JONES BR	93.G.007	26A	01	08A	5.000	B
41665C	QUIST NORMAN D & LOIS	QUIST BR	8709B	31A	01	08A	2.500	B
41774C	BLUNDELL HUGH	FIFTYNINE CR	335	02B	01	08A	30.000	B
41786C	LEIR JAMES H	SHATFORD CR & MARRON R	1554	07B	01	08A	64.000	B
41792C	PARADISE INDUSTRIES LTD	SHATFORD CR & MARRON R	1554	07B	01	08A	43.000	B
41795C	DAVIES NEAL	SHATFORD CR & MARRON R	1554	07B	01	08A	32.000	B
41798C	LEIR JAMES H	SHATFORD CR & MARRON R	1554	07B	01	08A	803.000	B
41800C	LEIR JAMES H	MARRON R	82.E.032.4.4	07B	01	08A	15.000	B
41802C	WOODS WAVERLY S & JOAN R	MARRON R	82.E.032.4.4	07B	01	08A	25.000	B
41850C	HARRISON ISOBEL M	PAUL LK	3815A	13H	01	08A	.670	B
41897C	BEALE ROBERT L	STEVENSON CR & LK	6964	23C	01	08A	40.000	B
41929C	SMITH SAMUEL L & CLAIRELL	SMITH PONDS	8708D-1	31A	01	08A	4.000	B
41937C	GAYLIE JOHN BENEDYKT	GREENBURN LK	92.B.074.2.4	31C	01	08A	15.000	B
41939C	SOUTHEY ROBERT D	GREENBURN LK	92.B.074.2.4	31C	01	08A	15.000	B
41965C	CRANBROOK CITY OF	JOSEPH CR	82.G.042	06B	01	08A	1850.000	B
42031C	FERNIE ALLAN D	HONEYMOON LK	92.G.044.1.1	29C	01	08A	.332	B
42138C	WEFLEN TORMAY & HOESLY BO	HAMILTON BR	4809	17A	01	08A	2.000	B
42153C	TOMKINS RICHARD M	HONEYMOON LK	92.G.044.1.1	29C	01	08A	.166	B
42203	B C HYDRO	PEACE R						
42264F	DE BOER JOHN & SHARON	BIG CR	92.O.075	05A	01	08A	1125.000	B
42343C	BEKS LAMBERTUS M & ANTONE	ROY CR	4819	17C	01	08A	15.000	B
42357C	NOPPE GABRIELLE	NEWTON BR	8793B	31B	01	08A	.500	B
42363C	SPIELDIENER FRANZ	HARKIN CR	1553	07B	01	08A	60.000	B
42445C	MILNE EDWARD	JONES CR	3706	13C	01	08A	10.000	B
42497C	ANDERSON COVE OYSTERS LTD	CAFFREY CR	92.B.032.4.1	31B	01	08A	1.500	B
42506C	FARMER DAVID M & ULANA V	NEWTON BR	8793B	31B	01	08A	.500	B
42508C	NORTH SHORE FREE PRESS LT	MARGARET BR	92.B.084.1.2	31C	01	08A	15.000	B
42526C	LONGLEY ROBERT & ISOBEL K	MCDOUGALL CR	8492	30E	01	08A	20.000	B
42531C	WILLIAMSON ERIC R	DEEP CR	8592B	30F	01	08A	15.000	B
42593F	HAGEN JOHN R	STEVENSON BR	93.L.093	12C	01	08A	2.000	B
42827C	ASHLEE THOMAS W	PAUL LK	3815A	13H	01	08A	.670	B
42879C	RITCHIE THOMAS & MARION	PAUL LK	3815A	13H	01	08A	.670	B
42881C	CONOCHIE JAMES	PAUL LK	3815A	13H	01	08A	.670	B
42883C	MACDONALD JOHN A	PAUL LK	3815A	13H	01	08A	.670	B
42885C	PIEPJOHN WALDTRAUT E	PAUL LK	3815A	13H	01	08A	.670	B
42887C	SINCLAIR MARY	PAUL LK	3815A	13H	01	08A	.670	B
42917C	SAMPSON PHILIP T	MORSHEAD CR	92.K.004.4.4	17B	01	08A	2.500	B
42929C	KUYVENHOVEN HENRY	THALIA BR	8792A	31B	01	08A	2.500	B
42953F	JACK K DOUGLAS	BUSE CR	3690	13C	01	08A	65.000	B
42962	B C HYDRO	PERD D'OREILLE						
43032C	BADE JOHN G & SHERRIE A	COLD CR	3813	13H	01	08A	10.000	B
43034C	PHILLIPS THOMAS F	COLD CR	3813	13H	01	08A	14.000	B
43036C	MONTGOMERY BYRNE A	PAUL LK	3815A	13H	01	08A	.670	B
43042C	DOUGLAS LAKE CATTLE CO	CHAPPERON CR	6158	21C	01	08A	2484.000	B
43104C	LEE HENRY & ROSE-MARIE	DOG PRAIRIE CR	93.B.088	26B	01	08A	1.000	B
43166F	OCEAN FALLS CORPORATION	LINK R	93.D.032	05F	01	08A	266000.000	B
43219C	SULLIVAN DAVID T & MERRY	PAUL LK	3815A	13H	01	08A	.670	B
43294C	GREATER VICTORIA WATER DI	CHARTERS R	92.B.042.2.1	31B	01	08A	60.000	B
43362C	HOOD POINT IMPROVEMENT DI	HONEYMOON LK	92.G.044.1.1	29C	01	08A	.166	B

Lic.#	Owner	Source	Location	Precinct	#PRP	PRP	QTY	Units
43377C	CIP INC	MOHUN CR	92.K.014.1.1	17B	01	08A	3.000	B
43408C	WICKLOW WEST HOLDINGS LTD	FRISKEN CR	6153	21D	01	08A	200.000	B
43458C	STEPHENS ALBERT G	PAUL LK	3815A	13H	01	08A	.670	B
43569		MOORE L. WARD CR						
43573C	SHUPE HARDING S & BERYL P	HULME BR	4802F	17A	01	08A	2.000	B
43580C	ROGERS IAN A	CHEMAINUS R	8709B	31A	01	08A	4.000	B
43660C	BERTRAM ANGELA I	PAUL LK	3815A	13H	01	08A	.670	B
43726C	MACKENZIE PAUL	CARLEY SPR	92.B.073.3.4	31C	01	08A	1.000	B
43759C	PRICE STEPHEN C & SUSAN E	STOLLE CR	3804	13G	01	08A	70.000	B
43762C	WALKER NORMAN	PAUL LK	3815A	13H	01	08A	.670	B
43823C	CHADWICK STUART W & J W &	CHADWICK BR	4805B	17A	01	08A	23.000	B
43832C	WESTERN FOREST PRODUCTS L	BRADFORD SWAMP	92B/5(F)	31B	01	08A	30.000	B
43836C	LOUTTIT GREGORY C	PLEASANCE BR	8794	31B	01	08A	.500	B
43853C	ABRAHAMS RONALD A & TERES	PAUL LK	3815A	13H	01	08A	.670	B
43857C	INDIAN AFFAIRS BRANCH	CHAPPERON CR	6158	21D	01	08A	440.000	B
43859C	SZABO LOUIS & EDITH E	STRUTT CR	82.E.053.1.4	07B	01	08A	38.750	B
43868C	PAUL LOWELL A & LEAH D	DURHAM BR	8593	30F	01	08A	25.000	B
43890C	HOOD POINT IMPROVEMENT DI	HONEYMOON LK	92.G.044.1.1	29C	01	08A	.166	B
43892C	HOOD POINT IMPROVEMENT DI	HONEYMOON LK	92.G.044.1.1	29C	01	08A	.166	B
43894C	HOOD POINT IMPROVEMENT DI	HONEYMOON LK	92.G.044.1.1	29C	01	08A	.166	B
43896C	HOOD POINT IMPROVEMENT DI	HONEYMOON LK	92.G.044.1.1	29C	01	08A	.166	B
43898C	HOOD POINT IMPROVEMENT DI	HONEYMOON LK	92.G.044.1.1	29C	01	08A	.166	B
43900C	HOOD POINT IMPROVEMENT DI	HONEYMOON LK	92.G.044.1.1	29C	01	08A	.166	B
43902C	HOOD POINT IMPROVEMENT DI	HONEYMOON LK	92.G.044.1.1	29C	01	08A	.166	B
43904C	HOOD POINT IMPROVEMENT DI	HONEYMOON LK	92.G.044.1.1	29C	01	08A	.166	B
43906C	HOOD POINT IMPROVEMENT DI	HONEYMOON LK	92.G.044.1.1	29C	01	08A	.166	B
43908C	HOOD POINT IMPROVEMENT DI	HONEYMOON LK	92.G.044.1.1	29C	01	08A	.166	B
43910C	HOOD POINT IMPROVEMENT DI	HONEYMOON LK	92.G.044.1.1	29C	01	08A	.166	B
43912C	HOOD POINT IMPROVEMENT DI	HONEYMOON LK	92.G.044.1.1	29C	01	08A	.166	B
43914C	HOOD POINT IMPROVEMENT DI	HONEYMOON LK	92.G.044.1.1	29C	01	08A	.166	B
43916C	HOOD POINT IMPROVEMENT DI	HONEYMOON LK	92.G.044.1.1	29C	01	08A	.166	B
43918C	HOOD POINT IMPROVEMENT DI	HONEYMOON LK	92.G.044.1.1	29C	01	08A	.166	B
43920C	HOOD POINT IMPROVEMENT DI	HONEYMOON LK	92.G.044.1.1	29C	01	08A	.166	B
43922C	HOOD POINT IMPROVEMENT DI	HONEYMOON LK	92.G.044.1.1	29C	01	08A	.166	B
43924C	HOOD POINT IMPROVEMENT DI	HONEYMOON LK	92.G.044.1.1	29C	01	08A	.166	B
43930C	ENGINEERING BRANCH	NEWMAN CR	92F/NW	17C	01	08A	7.500	B
44027F	SINNOTT HUGH J	MIKOSCH SPR	8793C	31B	01	08A	3.600	B
44029C	HIGHCROFT ENTERPRISES LTD	MIKOSCH SPR	8793C	31B	01	08A	1.400	B
44061C	FOOTE NATHAN C	ANTINOMIES CR	93.F.092	12A	01	08A	2.000	B
44074F	HUBER MARGARET I	POTHOLE CR	6168	21D	01	08A	16.000	B
44075F	QUILCHENA CATTLE CO LTD	POTHOLE CR	6168	21D	01	08A	84.000	B
44094F	BRIENEN JOHN C	HENRY CR	93.L.037	12C	01	08A	1.300	B
44166C	GREEN-MON INVESTMENTS LTD	130 MILE LK	92.P.092.1	05E	01	08A	66.000	B
44181C	NUKINA MASAO	PAUL LK	3815A	13H	01	08A	.670	B
44196C	THEN EILEEN M.	THEN PONDS	93.L.075.3.2.4	12C	01	08A	15.000	B
44213C	CRAIN ALBERT G	CANNON CR	93.B.080	26B	01	08A	130.000	B
44294F	NATIONAL DEFENCE DEPT OF	CHARLES LEE CR	3813	13H	01	08A	5.560	B
44368C	BANCROFT BRYCE	PAUL LK	3815A	13H	01	08A	.670	B
44380C	WALDRON ALLEN D	SAUNGRY CR	93.H.057	24B	01	08A	.250	B
44529F	VERHAGEN JOHN G & FAY L	VERHAGEN SPR	8793C	31B	01	08A	.500	B
44641F	HUBER MARGARET I	WASLEY CR	6167	21D	01	08A	160.400	B
44642C	HUBER MARGARET I	QUILCHENA CR	6167	21D	01	08A	133.500	B
44670C	SAKALA VASSILI & EMMI	PIGEON CR	8493C	30D	01	08A	4.000	B
44679C	PALENKAS PAUL	PALENKAS BR	1170	05D	01	08A	6.000	B
44686C	QUILCHENA CATTLE CO LTD	QUILCHENA CR	6167	21D	01	08A	616.500	B
44731F	QUILCHENA CATTLE CO LTD	WASLEY CR	6167	21D	01	08A	739.600	B
44740F	WESTERN HAY	CHIMNEY CR	1123	05E	01	08A	117.000	B
44742F	WEBB VERNON	PETERSON CR	92P/SE	13B	01	08A	15.000	B
44781C	JONNASEN ALDON	CARL BR	93.B.058.2	26A	01	08A	50.000	B
44833F	RICHARD SALLE CONTRACTING	PETERSON CR	92P/SE	13G	01	08A	100.000	B

DAMS

Lic.#	Owner	Source	Location	Precinct	#PRP	PRP	QTY	Units
44835F	INKSTER ANDREW K	PETERSON CR	92P/SE	13B	01	08A	23.000	B
44883C	RUEBELL GUENTHER	HALL BR	1135	05E	01	08A	60.000	B
44965C	STORRS ANTONY H G & M JOY	STORRS CR	8793C	31B	01	08A	.500	B
45027C	FRASER BRUCE & CAROLINE	RAIL CR	92P/14-W	05E	01	08A	8.200	B
45029C	GILKER MARGARET M	RAIL CR	92P/14-W	05E	01	08A	42.000	B
45031C	115 RANCH LTD	RAIL CR	92P/14-W	05E	01	08A	45.000	B
45033C	FRASER BRUCE F	RAIL CR	92P/14-W	05E	01	08A	20.000	B
45035C	DONALDSON ROBERT B & CHRI	S HAWKS CR	1161	05D	01	08A	50.000	B
45106C	PACIFIC PLAYGROUND HOLDIN	FAIRWAY BR	92F/14E	17C	01	08A	4.200	B
45112C	ROBERTSON KEITH A & PATRI	KEITH CR	8708A	31A	01	08A	.750	B
45129C	CHARMAN SHIRLEY J	CUB SPR & WHISKY DITCH	8793C	31B	01	08A	2.000	B
45131C	WESTBROOK LAWRENCE M & CL	GRAHAM CR	8793C	31B	01	08A	1.000	B
45133C	CHARMAN SHIRLEY J	ESTATE SPR	8793C	31B	01	08A	2.000	B
45154C	MACHL ARNE	MYERS CR	3091	11D	01	08A	1000.000	B
45198C	SHORE DAVID A	GENERAL CR	93.B.056	26A	01	08A	.500	B
45202C	PIERS ISLAND IMPROVEMENT	PIERS CR	92.B.073.2.2	31B	01	08A	5.500	B
45235C	GLOECKNER FRED H & LYNDA	EVERGREEN CR	1005	05B	01	08A	20.000	B
45237C	HARMS GARTH & MARGARET	NETTIE CR	1007	05B	01	08A	30.000	B
45259C	GARTHWAITE GORDON	REY CR	6009	21A	01	08A	350.000	B
45306C	WYNDLOW GREGORY	KULEET SWAMP	4802F	17A	01	08A	3.000	B
45316C	VARNEY CECIL & NANCY & RI	TUCKER BR	92F/8-F	17C	01	08A	3.000	B
45318C	PAUL DOUGLAS A & GRANT M	MARTIN BR	92G/4	17A	01	08A	.500	B
45363C	SPEED BRADLEY L & GAIL F	WISHON CR & SENDEY CR	6420	24D	01	08A	1.500	B
45368C	CHRISTISON JOHN C	TAO CR	93.H.039	24B	01	08A	.170	B
45454F	WATSON MUIR	GUICHON CR	6014	21A	01	08A	105.000	B
45457F	WEBB VERNON	PETERSON CR	92P/SE	13B	01	08A	11.000	B
45496F	VAN DER LAAN BEREND	WILLIAM SPRS	4804F	17A	01	08A	2.000	B
45535F	BOONSTRA JOHN JR	LACROIX CR	93.L.066	12C	01	08A	1.100	B
45553C	BURGER WILLIE	JUG CR	1162	05D	01	08A	61.200	B
45558C	WEIL RICHARD Y & CAROLE A	JUG CR	1162	05D	01	08A	98.400	B
45652C	REGEHR DOUGLAS & ELAINE	DEEP CR	8593	30F	01	08A	30.000	B
45662C	ZEHNDER FRIEDRICH & VRENI	GOLDIE CR	2960	10H	01	08A	500.000	B
45730C	RUBINOFF JEFFREY W	RUBINOFF POND	92.F.057.1.4	17C	01	08A	30.000	B
45738C	COLLINS JOHN F & JEAN F	SAM CR	92F/8-G	17C	01	08A	5.000	B
45746C	NEWMAN LARRY	WAY SWAMP	8708D	31A	01	08A	10.000	B
45749C	HARTWIG DONALD L & A JOYC	DUCK CR	92.B.083.3.4	31A	01	08A	2.000	B
45762C	DE MARNI LOUISE	SCUITTO CR	3692	13D	01	08A	60.000	B
45766C	MARKLINGER MARVIN A & LOR	JUS CR	1162	05D	01	08A	10.400	B
45871C	FURLONG MERVIN R & SHIRLE	S HAWKS CR	1161	05D	01	08A	40.000	B
45872C	LYON LAND AND CATTLE CO L	ANDERS CR	1162	05D	01	08A	200.000	B
45887C	FROLEK ENTERPRISES LTD	ANDERSON CR	3698	13D	01	08A	66.900	B
45895C	WHITE E MARILYN	PETERSON CR	3751	13F	01	08A	4.200	B
45897C	WHITE E MARILYN	ANDERSON CR	3698	13D	01	08A	4.200	B
45898C	FROLEK ENTERPRISES LTD	PETERSON CR	3751	13F	01	08A	66.900	B
45930C	MISSEZULA LAKE WATERWORKS	VINSON CR	92H/16W(D)	23C	01	08A	50.000	B
45945C	HOYER ANDRE C & WINIFRED	CLARENCE BR	8492A	30D	01	08A	3.000	B
45962C	GILL THOMAS L	HORSESHOE LK	8592	30F	01	08A	4.000	B
46032C	STIRRUP RANCH LIMITED	TWAN CR	93.B.057	26A	01	08A	500.000	B
46276C	POPHAM EDWIN A	GRAHAM CR	8793C	31B	01	08A	.250	B
46332C	WESTWICK FREDERICK H	BOTTLE CR	1162	05D	01	08A	200.000	B
46483C	FAITH ROBERT W & JEANNE M	ANDRASSY BR	8793C	31B	01	08A	1.000	B
46535C	BAR M RANCH LTD	BARNES CR	303	02A	01	08A	184.000	B
46557C	LUMLEY GEORGE F	LYNE CR	1159	05D	01	08A	100.000	B
46568C	HEYWOOD ALBERT B & EDITH	CANDLE CR	3666	13C	01	08A	25.000	B
46580C	TOWNLEY RONALD MARTIN	BLANCHET BR	92.I.037.1.3	21A	01	08A	11.800	B
46582C	POSEIN GORDON & EILEEN	BLANCHET BR	92.I.037.1.3	21A	01	08A	7.400	B
46591C	DOUGLAS LAKE CATTLE CO	MELLIN & BERRY CR	6160	21D	01	08A	1030.000	B
46593C	DOUGLAS LAKE CATTLE CO	QUILCHENA CR	6167	21D	01	08A	400.000	B
46714C	HANCOCK JOSEPH A	HANCOCK SPR	8750J	31C	01	08A	1.000	B
46727C	WILSON RAYMOND H & CLARA	SPARTON BR	8793C	31B	01	08A	3.100	B

DAMS

Lic.#	Owner	Source	Location	Precinct	#PRP	PRP	QTY	Units
46821C	PARKER FREDERICK L	CASTILLION CR	6054	21B	01	08A	10.000	B
46921C	HIMECH MYRNA L	WINCH CR	93.L.048	12C	01	08A	.400	B
46923C	S.K. DAVIS HOLDINGS LTD	AUBER CR	93.L.076	12C	01	08A	10.000	B
46937C	PERRY PETER 9 & NANCY	NEFF CR	3032	11B	01	08A	3.000	B
46938C	KOTOVICH VICTOR & MYRTLE	NEFF CR	3032	11B	01	08A	3.000	B
46940C	ANTHONY TREVALLIAN T	FULLER BR	1550D	07B	01	08A	6.000	B
46965C	TISDALE RONALD	PAUL LK	3815A	13H	01	08A	.670	B
46967C	VOTH JOHN A & LESIA S	PAUL LK	3815A	13H	01	08A	.670	B
46969C	JOHNSTON LYLE H	PAUL LK	3815A	13H	01	08A	.670	B
47004C	BISHOP WILLIAM J & SONJA	URQUHART CR	93.P.079	22A	01	08A	.500	B
47011C	WALLACE DAVID E & JUDITH	BACON BR	8793C	31B	01	08A	3.330	B
47047C	BIX RANCH LIMITED	WHITLEY CR	92P/6E(A)	02B	01	08A	200.000	B
47105C	MACMILLAN BLOEDEL LTD	BALBO CR	92F/SWW	01A	01	08A	1.000	B
47135C	MILNE EDWARD	JONES CR	3706	13D	01	08A	25.000	B
47215	B C HYDRO	COLUMBIA R						
47222C	KAMMERER HERMAN J	KIRBY LK	1165	05D	01	08A	50.000	B
47224C	KAMMERER HERMAN J	PATTON LK	1166	05D	01	08A	60.000	B
47252C	HAYES DAVID L & SALLY J	GRIFFITH CR	82.L.099.4.2	27E	01	08A	3.000	B
47258C	ROSS MAXWELL & MISA	ROSS SPR	8437	30	01	08A	3.000	B
47337C	SUGAR JOSIP P & ANNABELLE	SUGAR SWAMP	4802F	17A	01	08A	3.000	B
47339C	TALBOT JACK I & PATRICIA	MATTOON SPR	4820	17C	01	08A	1.500	B
47345C	LIEVRE BERTRAND J G	THOMAS BR	92.B.032.3.2	31B	01	08A	1.000	B
47521C	VANANDA WATERWORKS DISTRI	PRIEST LK	92.F.078.1.3	29B	01	08A	270.000	B
47550C	MILNE EDWARD	EDWARD BR	3706	13D	01	08A	30.000	B
47602C	SOLTIS ANDREW JR & THERES	MCKIBBEN CR	92.I.033.1.3	02C	01	08A	20.000	B
47605C	WELLS JOHN C	EVERGREEN CR	1005	05B	01	08A	1.340	B
47716C	ALBERNI MARINE FARM LTD	MAY CR	92.C.096.1.3	01A	01	08A	400.000	B
47824C	TRAIL CITY OF	CAMBRIDGE CR	82.F.002.3.2	13K	01	08A	230.000	B
47894C	BEDWELL HARBOUR RESORT LT	GREENBURN LK	92.B.074.2.4	31C	01	08A	25.000	B
47914F	ROSS JACK K & NORMA K	WEBB BR	92.G.017.4.4	29C	01	08A	3.000	B
47922F	MACKENZIE BRUCE	LAMONT SPR	8793B	31B	01	08A	1.000	B
47937C	HERSLEV BORGE	LOLO CR	92P/NE(9-G)	13C	01	08A	13.400	B
47941C	MINNOREVA HOLDINGS LIMITE	HAGGEN LK	3708	13D	01	08A	40.000	B
47977	"MCCULLOCH IRRIS."	HYDRAULIC CR						
48031C	MAWER ERIC L	KELLY CR S FORK	5327C	15C	01	08A	.500	B
48032C	MAWER ERIC L	SHARP CR	5327C	15C	01	08A	.500	B
48058C	FOX RONALD J & GRACE E	BENSON CR	93.G.008	26B	01	08A	1.000	B
48060C	CRICK GORDON D & A LUCILL	MIT LK	93.G.007	26A	01	08A	73.500	B
48062C	STRUDWICK HARRY & JOAN A	STRUDWICK BR	4809	17A	01	08A	2.100	B
48113C	QUIST MACHINERY LTD	BETJEMAN BR	3706	13D	01	08A	18.000	B
48239F	NISHIKAWARA HAROLD	BARNES CR	92.B.032.4.1	31B	01	08A	.500	B
48280C	SHOPSHIRE WILLIAM L & AST	MISSEZULA LK	92H/16W	22C	01	08A	112.000	B
48373C	MICHELL FREDERICK C	DAVID SPRS	8793B	31B	01	08A	.400	B
48376C	MICHELL FREDERICK C	DAVID SPRS	8793B	31B	01	08A	.400	B
48378C	MAR WILLIAM	DAVID SPRS	8793B	31B	01	08A	.850	B
48537C	DAWSON CREEK CITY OF	KISKATINAW R	93.P.078	22A	01	08A	348.000	B
48546C	PEDERSON DREW J & LESLIE	BEAR CR	92F/14E(C.D)	17C	01	08A	1.000	B
48556C	DEMARNI CAESAR	ROBBINS CR	3701	13D	01	08A	100.000	B
48562F	CARROLL BROOKE P	STRUTT CR	82.E.053.1.4	07B	01	08A	1.000	B
48564F	MATTHES ALEXANDER A	W MAID CR	8592C	30F	01	08A	1.000	B
48572F	MACMILLAN BLOEDEL LTD	SADIE CR	92F/1	17A	01	08A	35000.000	B
48612C	SPIELDIENER FRANZ	DERENZY LK	82E/6W(E)	07B	01	08A	3.200	B
48614C	HERMANSEN IVAR	DERENZY LK	82E/6W(E)	07B	01	08A	4.500	B
48684C	INDIAN AGENCY-PORT SIMPSO	STUMAUN CR	103J/NE	25C	01	08A	5.520	B
48694F	HIGHLAND VALLEY CATTLE CO	BARNES CR	303	02A	01	08A	263.000	B
48725C	DOYLE LEANDER J J	CHIMNEY CR	92.O.100	05B	01	08A	30.000	B
48742C	NELSON KENNETH R & CHRIST	PAUL LK	3815A	13H	01	08A	.670	B
48759C	KUIPERS RICHARD	BELLEVUE CR	8417B	32A	01	08A	2.500	B
48762C	J R POLLARD LIMITED	BELLEVUE CR	8417B	32A	01	08A	4.150	B
48848F	JACKSON ROY J & AGNES I	BRIGADE LK	3694	13C	01	08A	100.000	B

DAMS

Lic.#	Owner	Source	Location	Precinct	#PRP	PRP	QTY	Units
48887F	BRUNN RALF J & DIANNE E	RALF SPR	8793C	31B	01	08A	.500	B
48893C	FURLONG MERVYN R & SHIRLE	BLERIOT CR	1161	05D	01	08A	90.000	B
48904C	ASHLEE TOM G	PAUL LK	3815A	13H	01	08A	.670	B
48906C	PARKER VICTORIA E	PAUL LK	3815A	13H	01	08A	.670	B
48908C	MURPHY MAXINE IRENE	PAUL LK	3815A	13H	01	08A	.670	B
48910C	ROHRKE DOLLAN M & JOAN L	PAUL LK	3815A	13H	01	08A	.670	B
48912C	BADE EMIL & YVONNE	PAUL LK	3815A	13H	01	08A	.670	B
48918C	SWOBODA LOUIS A	RICHARDSON CR	92.I.015.2.2	21B	01	08A	10.000	B
48952C	DIVERSIFIED HOLDINGS LIMI	BRADY CR	2963	10H	01	08A	70.000	B
49012C	JACKSON JAMES F & HAZEL E	ARBER BR	92.B.032.3.4	31B	01	08A	8.000	B
49014C	STREET WILLIAM H	BECKWITH POND	8792A	31B	01	08A	4.250	B
49049C	D L LEE LTD	BORGIA SPRS	92.0.095	05A	01	08A	50.000	B
49053C	ABRAM MARJORIE J	BRANTING CR	1142	05E	01	08A	7.000	B
49101C	SMILEY HAROLD A & LILLIAN	GARDOM CR	8524	30G	01	08A	16.250	B
49103C	HERBERT ARTHUR A & CAROLY	GARDOM CR	8524	30G	01	08A	1.500	B
49105C	MCCOOL NORMAN K & JUDITH	GARDOM CR	8524	30G	01	08A	1.500	B
49107C	HATFIELD HUBERT B	GARDOM CR	8524	30G	01	08A	.750	B
49216C	RASHLEIGH JANET T	RASHLEIGH BR	8793B	31B	01	08A	10.000	B
49219C	PIPKE THELMA	DEFIANCE CR	92.C.058.4.2	31B	01	08A	.500	B
49238C	PEASE ROBERT	BLOC CR	93.L.066	12C	01	08A	.750	B
49246C	ANSLEY RICHARD H	FINLAY LK	92.B.094.1.1	31C	01	08A	.250	B
49280C	LUND LARRY A & MAY M	BLANCHET BR	92.I.037.1.3	21A	01	08A	24.700	B
49282C	MILLS DAVID C	BLANCHET BR	92.I.037.1.3	21A	01	08A	16.100	B
49298C	TURTLE ISLAND LAND STEWAR	DAVID CR	3122	11E	01	08A	6.250	B
49344C	MCRAE ROBERT G & SHERRY L	MILBURN CR	93.G.007	26A	01	08A	.500	B
49463C	PARK MOUNTAIN RANCH	PHILLIPS CR	93.K.010	24E	01	08A	25.000	B
49465C	PARK MOUNTAIN RANCH	PRESTON CR	93.K.010	24E	01	08A	20.000	B
49477C	REIMER ALLAN & KATHLEEN	DUCK CR	92.B.083.3.3	31C	01	08A	12.000	B
49481C	CRADDOCK JOHN S	SANDYS SPR	8794	31B	01	08A	5.000	B
49573C	PRITCHARD & COMPANY PROPE	BURGER BR	1160	05D	01	08A	5.000	B
49574C	RISKE CREEK RANCHING LTD	RISKE CR S FORK	92.0.097	05A	01	08A	100.000	B
49612C	KUNTZ VERNON C	BURNETT CR	1340	06G	01	08A	60.000	B
49641C	BOWEN BAY IMPROVEMENT DIS	MALKIN CR	92.G.033.4.2	29C	01	08A	1.130	B
49650C	SMITH CHARLES H & JOAN E	NABIL LK	93G11	24E	01	08A	60.000	B
49666C	QUIST REGINALD & OLGA	CLAUDET CR	4809	17A	01	08A	1.000	B
49672C	KOMAS RANCH LIMITED	DANES CR	92.F.056.4.4	17C	01	08A	2.000	B
49726C	AUGUSTINE PHILIP	PETER CR	93A/6W(E)	05D	01	08A	25.000	B
49728C	RUEGSEGGER WILLY & CHRIS	LOLO CR	92P/NE(9-G)	13C	01	08A	70.000	B
49760C	HANSON MERVIN G	HANSON LK	3120	11E	01	08A	15.000	B
49836C	KRAUSE HARRY & RUTH	KRAUSE DITCH	92.F.036.2.1	01A	01	08A	6.330	B
49899C	CARIBOO REGIONAL DISTRICT	MCLEESE LK	1158A	05D	01	08A	2.300	B
50019C	WEINGART G	ERIK BR	92.0.100	05E	01	08A	50.000	B
50044		DEADMAN CR						
50055C	THOMAS MORGAN R & THELMA	CARLYLE SPR & CARMONA SPR	8584B	30F	01	08A	30.000	B
50153C	WILLIAMS CHRIS R & GERTRU	ROOK SWAMP	4821	17C	01	08A	.500	B
50156C	LADYSMITH TOWN OF	BANON CR	8718A	31A	01	08A	950.000	B
50159F	HUMPHREY HOWARD P	HUMPHREY CR	3750	13F	01	08A	54.000	B
50173F	SMITH MCNEIL	ED JAMES CR	3092	11D	01	08A	75.000	B
50205C	WEINGART G	CHIMNEY CR	92.0.100	05E	01	08A	100.000	B
50210C	MIOCENE RANCH LTD	SHORT CR	1162	05D	01	08A	40.000	B
50211C	MIOCENE RANCH LTD	SHORT CR	1162	05D	01	08A	45.000	B
50215C	INDIAN AFFAIRS BRANCH	KWAKIUTL CR	103A/SE(1-G)	05F	01	08A	73.000	B
50304C	VANCOUVER LANDSCAPING CO	CENCI CR	92.G.041.4.4	29D	01	08A	5.000	B
50332C	KOCK SIEGFRIED A & THERES	STONEY CR	93.B.068	26A	01	08A	80.000	B
50342C	MICHELL RALPH D F	S NEAVES SPR	8793B	31B	01	08A	3.500	B
50344C	PROVINCIAL AGRICULTURAL L	N NEAVES SPRS #1.2 & 3	8793B	31B	01	08A	7.500	B
50360C	TUCKER CLARK E & VERNA J	CHARLEMAGNE CR	92.0.100	05C	01	08A	60.000	B
50379C	JACKSON ROY J & AGNES I	BRIGADE LK	3694	13D	01	08A	80.000	B
50403C	CASCRSO VICTOR R	DUTTON CR	82E/6W(D)	07A	01	08A	80.000	B
50516C	ASHER DENNIS BRIAN & KATH	LINDAL CR	93.G.008	26B	01	08A	3.000	B

DAMS

Lic.#	Owner	Source	Location	Precinct	#PRP	PRP	QTY	Units
50547F	BATEMAN DAVID S & LENOR F	BAKER CR	3093	11D	01	08A	13.000	B
50672C	BERREVOETS IRWIN R & MARY	PAUL LK	3815A	13H	01	08A	.670	B
50692C	DE COSSON ANNE	CICERO SLOUGH	92.F.057.1.1	17C	01	08A	40.000	B
50695C	OMAND JAMES C & JACQUELIN	CLEMENT CR	8708A	31A	01	08A	.750	B
50706C	KENDREW GEORGE R	CHANEL CR & CHANNING CR	92.B.042.1.2	31B	01	08A	7.500	B
50735C	HINCHLIFFE ARTHUR E	CATHER BR	93.L.075	12C	01	08A	5.000	B
50779C	LAKEVIEW IRRIGATION DISTR	LAMBLY CR	8491	30D	01	08A	1500.000	B
50833C	YEULETT GEORGE V & RUTH C	ALLAN CR & HAYMAN CR	8491	30D	01	08A	25.000	B
50835F	YEULETT GEORGE V & RUTH C	HAYMAN CR	8491	30D	01	08A	32.500	B
50888C				15	02	01A	1500.000	D
50889C	ARRDEE FARM LTD	MINETT POND	94.J.095	15	01	08A	3.630	B
50900C	PAYNTERS ORCHARD MEADOWS	ALLAN CR & HAYMAN CR	8491	30D	01	08A	25.000	B
50906F	PAYNTERS ORCHARD MEADOWS	HAYMAN CR	8491	30D	01	08A	32.500	B
50922F	JACKSON JAMES F & HAZEL E	JACKSON BR & JAMES SPR	92.B.032.3.4	31B	01	08A	3.000	B
50941C	H WILLIAMSON BLACKTOP & L	BORLAND CR	1122	05E	01	08A	8.000	B
50943C	DE BOER JOHN & SHARON	VALLEY CR	1122	05E	01	08A	30.000	B
50944C	RIVER GLEN RANCHES LTD	VALLEY CR	1122	05E	01	08A	40.000	B
50947C	RIVER GLEN RANCHES LTD	BORLAND CR	1122	05E	01	08A	13.000	B
50949C	SYME JAMES P & MARGARET	HAWKS CR	1161	05D	01	08A	100.000	B
50955C	MARSHALL GORDON D & WENDY	MARSHALL SLOUGH	92P/11E(A)	05B	01	08A	20.000	B
50960C	153 MILE RANCH	HAWKS CR	1161	05D	01	08A	200.000	B
50972C	JUNG KLAUS-DIETER & ANNET	MELODY POND	3738	13E	01	08A	5.000	B
51005C	MANN HENRY Y	CHAMBERLAIN POND	1507 & 1511	07A	01	08A	200.000	B
51020C	VAN TINE DOUGLAS L & ANET	JEFCOAT SPR	8527A	30G	01	08A	.500	B
51099C	SCHULTZ DIETRICH & CONROY	PEEL BR	8793B	31B	01	08A	4.200	B
51101C	SWEET DAPHNE M & MORRIS G	PEEL BR	8793B	31B	01	08A	3.200	B
51103C	WOODS ADRIAN C	PEEL BR	8793B	31B	01	08A	.500	B
51106C	CROLL ROBERT D & PATRICIA	UMPOOLA SWAMP	8793B	31B	01	08A	8.000	B
51116F	KRIEGER ARTHUR & THELMA F	UPPER TWIN LK	1509	07A	01	08A	200.000	B
51139F	HOTTON PETER & ELISABETH	KING CR & KING SWAMP	8790D	31B	01	08A	1.850	B
51165C	HEFFLEY IRRIGATION DISTRI	EDWARDS CR & HEFFLEY CR	3814	13H	01	08A	500.000	B
51240C	CAMPAGNOLO LOUIS	CYGNET CR	93.L.085	12C	01	08A	1.000	B
51250C	DUPILKA ALLAN J	CONSTANTINE CR	93.G.008	26B	01	08A	1.000	B
51254C	STONE JAMES N	STONE POND	8708D-1	31A	01	08A	8.000	B
51258C	COUPE RAYMOND A	HAWKS CR	1161	05D	01	08A	30.000	B
51261C	FLATT HILARY C	MONTE CR/HOLMWOOD SLOUGH	3704	13D	01	08A	100.000	B
51267F	INTERNATIONAL PARK-WEST F	KITLEY LK	1506	07A	01	08A	10.000	B
51271C	BIG CHIEF MOBILE HOME PAR	B X CR	8582D	30F	01	08A	48.000	B
51293C	WRIGHT WILFRED M	BULLRUSH BR	92.P.092.1	05E	01	08A	20.000	B
51302C	STITT CLIFFORD A & ALICE	PAUL LK	3815A	13H	01	08A	.670	B
51304C	GOAR DAVID	PAUL LK	3815A	13H	01	08A	.670	B
51306C	FARRELL BRENDA M	PAUL LK	3815A	13H	01	08A	.670	B
51381C	INDIAN AGENCY-WILLIAMS LA	BOBBS BR	1006	05B	01	08A	100.000	B
51397C	TOWER RANCHES	SIDEDE CR	8402	30A	01	08A	20.000	B
51412C	COLLINS JACK & DORIS E	PEDDER CR	92.B.033.3.1	31B	01	08A	5.000	B
51414C	DUPREE HUGH W	PEDDER CR	92.B.033.3.1	31B	01	08A	1.700	B
51435C	ESLINGER EMIL A & JOAN L	CRAIK POND	3724B	13E	01	08A	.500	B
51437C	MCLEOD HARVEY N	PAUL LK	3815A	13H	01	08A	.670	B
51459C	ATTORNEY-GENERAL MINISTRY	COSGRAVE CR	82M/NW(12-E)	13C	01	08A	2.210	B
51472C	CLOUSTON JOHN W	BUFTON CR	93.G.018	26B	01	08A	5.000	B
51477C	HARKNETT GEORGE W	ESTATE BR	8793C	31B	01	08A	6.000	B
51485C	ANDERSON SHIRLEY B	PAUL LK	3815A	13H	01	08A	.670	B
51487C	SMITH PAULINE	PAUL LK	3815A	13H	01	08A	.670	B
51489C	STUART IAN V	PAUL LK	3815A	13H	01	08A	.670	B
51533C	FISHER GILBERT W & BARBAR	CARY BR	92.P.091.4	05E	01	08A	16.000	B
51558C	TURNER NICHOLAS & GLENDA	SHOLINDER SPR	93A/5W(E)	05D	01	08A	35.000	B
51603C	FISHER GILBERT W & BARBAR	CATTAIL LK	93A/4-W	05E	01	08A	40.000	B
51776C	LASQUETI HOLDINGS LTD	DEANE CR	92F/8-F	17C	01	08A	1.500	B
51778C	JONES GORDON G & BRUCE L	TAWNY GOLD SWAMP	92.F.059	17C	01	08A	1.000	B
51843C	DARWIN EDGAR C & BETTY J	SAM SWAMP	92F/8-S	17C	01	08A	58.400	B

DAMS

Lic.#	Owner	Source	Location	Precinct	#PRP	PRP	QTY	Units
51855C	RESH LYLE W & BETTY L	CHIMNEY CR	1138	05E	01	08A	33.000	B
51857C	ABRAM ARNOLD	DEMPSEY LK	1142	05E	01	08A	78.000	B
51859C	SUNDOWN FIRESCREENS LTD	DEMPSEY LK	1142	05E	01	08A	20.000	B
51911C	LYTTLE BROS LIMITED	OUILLET CR	92.G.043.4.1	29C	01	08A	4.000	B
52042F	LONG ANNELI	CROSSMAN CR	8525	30G	01	08A	4.950	B
52251F	BUFF HENRY & CLARA L	LEE BR	92.G.018.4.3	20J	01	08A	2.000	B
52276C	DONCARO HOLDINGS LTD	TREMATON CR	92F/8-F	17C	01	08A	.460	B
52374C	STEFFENS ARTHUR L & BARBA	DOLE POND	93.B.049	26B	01	08A	10.000	B
52402F	STEFFENS ARTHUR L & BARBA	MACALISTER BR	93.B.049	26B	01	08A	6.000	B
52438C	FREDERICKSON RONALD E	HOME CR	93.P.089	22A	01	08A	10.500	B
52446C	CUE ARTHUR G & BEATRICE D	DUCK CR	92.B.083.3.3	31C	01	08A	.250	B
52449C	HASTINGS CHARLES E	HOPE SPR	92.B.074.4.3	31C	01	08A	10.500	B
52451C	GREATER VICTORIA WATER DI	DECEPTION GULCH	8797	31B	01	08A	2500.000	B
52459F	THOMAS MORGAN R & THELMA	HUTLEY CR	8584B	30F	01	08A	5.250	B
52483C	FREDERICKSON RONALD E	DORE CR HOME CR DONNE CR	93.P.089	22A	01	08A	20.000	B
52526C	WEISNER RONALD C R & KATH	WEISNER BR	92.B.093.1.1	31C	01	08A	4.000	B
52529C	GILBERT NICHOLAS R & MARY	GILBERT BR	92.B.083.3.2	31C	01	08A	1.000	B
52535C	MANSON CHRISTINE	PAUL LK	3815A	13H	01	08A	.670	B
52538C	EVANS DAVID G & JEAN L &	NATHAN CR	3091	11D	01	08A	18.000	B
52567C	WELSH LORNE ANDREW	DORGELES BR	92.B.083.3.3	31C	01	08A	.400	B
52712C	SHARPE GEORGE C	DUNMORE BR	92.I.059.4.4	13D	01	08A	12.000	B
52839C	INSKIP DOUGLAS V	RUSHTON CR	3829	13H	01	08A	117.000	B
52857C	HAYWARD HOLDINGS LTD	RUSHTON CR	3829	13H	01	08A	84.000	B
52865C	BEKAR EUGENE	EAKINS CR	93.L.075	12C	01	08A	6.000	B
52870C	GARDI GASTON & MARIA TERE	GARDI POND	8701B	31A	01	08A	5.000	B
52900C	GORDON DONALD A	TREMATON CR	92F/8-F	17C	01	08A	.230	B
52935C	JACKSON HOPE	HOOK CR	8750L	31C	01	08A	5.000	B
52943C	GALBIERZ NORBERT & GUDRUN	SANDHILL CR	8793C	31B	01	08A	7.000	B
52945C	TUCKER BRIAN J & M IRENE	DURRELL CR	8792A	31B	01	08A	5.000	B
52984C	BROWN ROGER B & SHIRLEY H	CROSS BOW CR	8791E	31B	01	08A	.500	B
53008C	SOUTH BAY DEVELOPMENTS LT	COUSTEAU CR	92.F.006.2.4	01A	01	08A	1.000	B
53014C	SMITH BRIAN WILLIAM	DOWIE BR	1139	05E	01	08A	16.000	B
53026C	BAUMGARDNER VIRGINIA M	KEREMEOS CR	6935	23B	01	08A	3.880	B
53030C	SAWKINS EDWIN H & JACQUEL	KEREMEOS CR	6935	23B	01	08A	3.880	B
53032C	REDDY KRISHNA & DHAN	KEREMEOS CR	6935	23B	01	08A	3.890	B
53034C	SZONI FRANK	KEREMEOS CR	6935	23B	01	08A	3.880	B
53036C	BOCSIK JANOS	KEREMEOS CR	6935	23B	01	08A	3.960	B
53038C	G M RANCH INC	KEREMEOS CR	6935	23B	01	08A	5.000	B
53059C	SEARS JACQUELINE C	JACQUELINE BR	92B/4	17A	01	08A	1.000	B
53062C	PRELLWITZ ROSS E & CAROLY	PRELLWITZ POND	8750F	31C	01	08A	3.000	B
53079C	McBRATNEY DIANA F & BROWN	SANDOWNE BR	8794	31B	01	08A	2.000	B
53112C	DONKERSLEY KENNETH A & DO	JONES BR	92.B.033.3.4	31B	01	08A	1.000	B
53135C	MCRAE DOUGLAS K	LEEKIE CR	93.L.047	12C	01	08A	.750	B
53137C	BOOTH BAY RESORT LTD	ACLAND SPR	92.B.083.3.2	31C	01	08A	1.610	B
53171C	HODSON KEITH A & HEATHER	LACROIX CR	93.L.066	12C	01	08A	5.000	B
53209C	MASSON WILLIAM A & BARBAR	VENNER BR	8709B	31A	01	08A	4.430	B
53211C	WHITE LAWRENCE R & GAIL K	VENNER BR	8709B	31A	01	08A	3.830	B
53213C	PAGE CHRISTOPHER D	VENNER BR	8709B	31A	01	08A	3.270	B
53225C	CHUTTER RANCH LTD	HAMILTON LK	6056	21B	01	08A	300.000	B
53230C	RIVER GLEN RANCHES LTD	BORLAND CR	1122	05E	01	08A	95.000	B
53231C	H WILLIAMSON BLACKTOP & L	BORLAND CR	1122	05E	01	08A	63.000	B
53233C	150 INVESTMENTS LTD	BORLAND CR	1122	05E	01	08A	12.000	B
53293F	BROUWER FREDERICK & GRACE	CHIMNEY CR	1123	05E	01	08A	104.400	B
53295F	JOHNSTON KENNETH & JUDY	CHIMNEY CR	1123	05E	01	08A	98.100	B
53347C	CHRISTISON IAN & ELSIE	ERLANDER CR	8792A	31B	01	08A	5.000	B
53349C	LOVE JOHN & ANNE C	PLEASANCE BR	8794	31B	01	08A	.250	B
53417C	WILLIAMS HOWARD L & ROSEM	LAITINEN SWAMP	8793C	31B	01	08A	4.000	B
53571C	MUIR GEORGE & MARION	WHITEWOOD CR	92P/SE(1-C)	13B	01	08A	184.000	B
53577C	McDOUGALL CHARLES A & JAC	WHITEWOOD CR	92P/SE(1-C)	13B	01	08A	26.000	B
53592C	BLANC LOUIS C	CHUM CR	3707	13D	01	08A	100.000	B

Lic.#	Owner	Source	Location	Precinct	#PRP	PRP	QTY	Units
53648C	HOLMES HERBERT H & LYNNE	RED LK	384	02F	01	08A	1.340	B
53695C	ROSS JOHN R & REIKO K	ARMINIUS SPRS	1511	074	01	08A	15.000	B
53705C	HIGHMONT OPERATING CORPOR	GNAWED LK	92I/7W(E)	21A	01	08A	230.000	B
53716C	BAUMANN WALTER F	DERENZY LK	82E/6W(E)	07B	01	08A	23.400	B
53719C	VAN LEEUWEN ARNOLD M	WILLIAM CR	92.H.079.2.2	23C	01	08A	.500	B
53721C	COOMBS ALICE	WILLIAM CR	92.H.079.2.2	23C	01	08A	.500	B
53723C	GOLD ROBIN B	WILLIAM CR	92.H.079.2.2	23C	01	08A	.500	B
53725C	HANNA LINDA M & DAVID G	WILLIAM CR	92.H.079.2.2	23C	01	08A	.500	B
53727C	CACKETTE FREDERICK C & IR	WILLIAM CR	92.H.079.2.2	23C	01	08A	.500	B
53729C	BUFFIE ROBERT & LINDA	WILLIAM CR	92.H.079.2.2	23C	01	08A	.500	B
53731C	TICHY OLDRICH J	WILLIAM CR	92.H.079.2.2	23C	01	08A	.500	B
53733C	FRASER LYLE	WILLIAM CR	92.H.079.2.2	23C	01	08A	.500	B
53735C	REID GRAHAM & FLORENCE	WILLIAM CR	92.H.079.2.2	23C	01	08A	.500	B
53737C	GOLD ROBIN B	WILLIAM CR	92.H.079.2.2	23C	01	08A	.500	B
53739C	BURNETT JOHN R & CLARINE	WILLIAM CR	92.H.079.2.2	23C	01	08A	.500	B
53741C	BOSCHUNG JURG & SALLIE	WILLIAM CR	92.H.079.2.2	23C	01	08A	.500	B
53743C	EMIGH JULIA A	WILLIAM CR	92.H.079.2.2	23C	01	08A	.500	B
53745C	GAINER WILMA A & NORMAN D	WILLIAM CR	92.H.079.2.2	23C	01	08A	.500	B
53747C	RIDDALL STEPHEN R & NORMA	WILLIAM CR	92.H.079.2.2	23C	01	08A	.500	B
53749C	GAINER NORMAN	WILLIAM CR	92.H.079.2.2	23C	01	08A	.500	B
53751C	LA CHAPELLE NORMAN N & PA	WILLIAM CR	92.H.079.2.2	23C	01	08A	.500	B
53753C	ROTSCHY ANTHONY G & PATRI	WILLIAM CR	92H079	23C	01	08A	.500	B
53755C	WILLEMS HENDRIKUS W	WILLIAM CR	92.H.079.2.2	23C	01	08A	.500	B
53757C	AOYAMA TSUNEKO	WILLIAM CR	92.H.079.2.2	23C	01	08A	.500	B
53759C	MCLEOD ALEXANDER & GORDON	WILLIAM CR	92.H.079.2.2	23C	01	08A	.500	B
53761C	KNIGHT CHRISTOPHER A	WILLIAM CR	92.H.079.2.2	23C	01	08A	.500	B
53763C	MANSELL JOHN M	WILLIAM CR	92.H.079.2.2	23C	01	08A	.500	B
53765C	PFEIFF WALTER & DOROTHEA	WILLIAM CR	92.H.079.2.2	23C	01	08A	.500	B
53767C	KAULIG LUISE	WILLIAM CR	92.H.079.2.2	23C	01	08A	.500	B
53769C	LEONG LESLIE & JONG PETER	WILLIAM CR	92.H.079.2.2	23C	01	08A	.500	B
53771C	KOECHER KARL G	WILLIAM CR	92.H.079.2.2	23C	01	08A	.500	B
53811F	FICKE FRANZ H & GERTRUD B	HITCHNER CR	8493	30C	01	08A	47.500	B
53841C	HONOUR DOUGLAS L & MARY K	STONEY CR	93.B.068	264	01	08A	110.000	B
53910C	WOLTERSON EVELINE V ET AL	MACPHERSON CR	8436	30	01	08A	.250	B
53939C	EPHROM MICHAEL F & K JEAN	REDMOND CR	93K.009	24E	01	08A	10.000	B
53941C	EPHROM MICHAEL F	REDMOND CR	93.K.019	24E	01	08A	20.000	B
53949C	COLDSTREAM RANCH LTD	COLDSTREAM CR	8469D	30C	01	08A	14.000	B
53971F	FIMRITE DOUGLAS ELROY & D	JOANN BR	8793C	31B	01	08A	.500	B
54015C	HOPE NORMAN B & JUNE R	COCKBURN LK	8254	29C	01	08A	1.840	B
54020C	PIGGOTT ALBERT & BETTY	ERICSON CR	8750K	31C	01	08A	5.000	B
54035C	AVERY WALTER S T & MARGOT	ALONZO SWAMP	92.F.056.2.4	17C	01	08A	7.500	B
54057C	SAYLOR GEOFFREY M & LAURE	FISH POND & FISHBEIN POND	92.B.093.2.4	31C	01	08A	30.000	B
54080C	ASK CLIFFORD C & EVELYN A	MCCUDDY CR	1507 & 1511	074	01	08A	50.000	B
54082C	GOERTZEN ABRAM L	MCCUDDY CR	1507 & 1511	074	01	08A	17.950	B
54116C	HOWARD JOHN E & PATRICIA	CEROLINI CR	1601	07C	01	08A	39.000	B
54118C	EPHROM MICHAEL F	FLORES CR	93.K.020	24E	01	08A	5.000	B
54122C	HEISLER GRANT M & NANCY L	JACK PINE LK	92H/15E	23C	01	08A	150.000	B
54388C	SOMMER JOAN E	VALENS BR	92.F.057.1.1	17C	01	08A	4.300	B
54407C	PROULX ROBERT J & MARIE P	HONEYBURN CR	93.B.058.2	26B	01	08A	15.000	B
54412C	HARTLEY DOUGLAS R	HARTLEY POND	8792A-1	31B	01	08A	1.000	B
54416C	KUNTZ VERNON C & LINDA L	LUKE CR	1340	06B	01	08A	60.000	B
54421C	DEERWOOD WATERWORKS LTD	PAUL LK	3815A	134	01	08A	55.300	B
54444C	ABLITT RONALD G & GERALDI	ELYOT BR	93.B.078	264	01	08A	100.000	B
54451C	DANIEL IAN & D LYNN	PATROLAS CR	8701F	314	01	08A	10.000	B
54455C	REUTER WINFRIED G & ASTRI	LALUWISSIN CR	344	02C	01	08A	21.530	B
54457C	FENNELL JAMES A & MARGARE	LALUWISSIN CR	344	02C	01	08A	12.970	B
54458C	FENNELL JAMES A & MARGARE	LALUWISSIN CR	344	02C	01	08A	7.100	B
54459C	CARTER DONALD R & CLAIRE	LALUWISSIN CR	344	02C	01	08A	13.080	B
54460C	CARTER DONALD R & CLAIRE	LALUWISSIN CR	344	02C	01	08A	5.220	B
54461C	KANE WILLIAM M	LALUWISSIN CR	344	02C	01	08A	.100	B

DAMS

Lic.#	Owner	Source	Location	Precinct	#PRP	PRP	QTY	Units
54487C	REUTER WINFRIED & ASTRID	SKOONKA CR & KANE CR	347	02C	01	08A	107.650	B
54491C	FENNELL JAMES A & MARGARE	SKOONKA CR & KANE CR	347	02C	01	08A	64.860	B
54493C	FENNELL JAMES A & MARGARE	SKOONKA CR & KANE CR	347	02C	01	08A	35.490	B
54495C	CARTER DONALD R & CLAIRE	SKOONKA CR & KANE CR	347	02C	01	08A	65.380	B
54497C	CARTER DONALD R & CLAIRE	SKOONKA CR & KANE CR	347	02C	01	08A	.510	B
54499C	KANE WILLIAM M	SKOONKA CR & KANE CR	347	02C	01	08A	75.000	B
54501C	ANTLE JOHN & KAREN	TRIPLET CR	93A/6W	05D	01	08A	.750	B
54525C	ZAHAR MIKE & ALVA	GAILLARD CR	4820	17C	01	08A	30.000	B
54527C	MCWILLIAM ALLEN G & HEATH	FORSYTH CR	4820	17C	01	08A	.850	B
54529C	BOULDING JAMES P & MYRNA	GAINSBOROUGH LK	92F/NW(13-G)	17C	01	08A	.250	B
54534C	LUDWIG WILLIAM	GARAMOND BR	93.M.032	12C	01	08A	.800	B
54539C	MOUNT BECHER SKI DEVELOPM	LODGE CR	92F/10 & 11E	17C	01	08A	183.100	B
54547C	ROSSLAND CITY OF	HANNA ELGOOD CR & S MURPH	5282	18K	01	08A		
54569	"LADNER CREEK"	GALVEZ & FULLER CR						
54571C	FROMENT ALICE M	MCCUDDY CR	1511	07A	01	08A	10.000	B
54585F	HIGHLAND VALLEY CATTLE CO	BARNES CR	303	02A	01	08A	400.000	B
54763C	TRUSWELL GORDON & BARBARA	SPARTON BR	8793C	31B	01	08A	7.100	B
54765C	TVEITA OLAV & KATHLEEN A	TVEITA POND	8792A-1	31B	01	08A	.750	B
54808C	CAPITAL REGIONAL DISTRICT	MONEY LK #1	92.B.075.3.3	31C	01	08A	23.500	B
54815C	MILLER MARGUERITE J	MARGUERITE POND	93K/5(C)	12A	01	08A	40.000	B
54840C	WILSON WOODROW R & ROSE L	RED LK	384	02F	01	08A	32.500	B
54841C	VANDERMEER DIANE J & DIRK	RED LK	384	02F	01	08A	25.000	B
54842C	VANDERMEER DIANE J & DIRK	RED LK	384	02F	01	08A	50.000	B
54844C	MOUTRAY JANE B E	RED LK	384	02F	01	08A	25.000	B
54845C	HIGHLAND VALLEY CATTLE CO	BARNES CR	303	02A	01	08A	223.400	B
54848C	BAR M RANCH LTD	BARNES CR	303	02A	01	08A	81.000	B
54911C	HILLMER NANCY M	BALDY CR W FORK	1507	07A	01	08A	25.000	B
54935C	OLD ROPER FIELD RANCH	CHERRY CR	3758	13F	01	08A	20.600	B
54966C	YARISH EDWARD D	GOOSE BR	8433	30	01	08A	5.000	B
54972C	OTTOSEN HENNING & INGER M	NEEL CR	8701F	31A	01	08A	8.000	B
55030C	JOHNSTON JORDEN I	WHELAN CR	8427B	30A	01	08A	24.000	B
55033C	JOHNSTON JORDON I	WHELAN CR	8427B	30A	01	08A	24.000	B
55062C	VANDENBORN JACOB J & LYNN	GOLDONI CR	93.L.056	12C	01	08A	1.000	B
55073C	BOSOMWORTH NEIL JOHN & MY	GODFREY POND & GARFIELD S	6764	23C	01	08A	90.000	B
55101C	AUSTRALIAN RANCH LTD	AUSTRALIAN CR	93.B.079	25B	01	08A	300.000	B
55116C	HANN ROBERT E & LAVINIA M	CAMPBELL SPR	92.B.073.4.3	31C	01	08A	.250	B
55118C	SWEET MORRIS G	HOLLYRIDGE POND	8793B	31B	01	08A	1.000	B
55121C	PUHKY RONALD S	GASPELL BR	92.B.073.4.3	31C	01	08A	5.000	B
55123C	PUHKY RONALD S	FULFORD CR	92.B.073.4.1	31C	01	08A	10.000	B
55127C	HERBERT HOLDINGS LTD	SCOVELL CR	92.B.083.2.3	31C	01	08A	12.000	B
55144C	PINETTE & THERRIEN MILLS	BEEDY CR	1165	05D	01	08A	150.000	B
55149C	KORPELA RAIMO K & CATHLEE	GOLDONI CR	93.L.056	12C	01	08A	1.000	B
55165C	BOORER HUGH R	CASTELL BR	92G/4(F)	17A	01	08A	1.000	B
55212C	AASE MONS & ELSA	AASE CR	93.G.087	24D	01	08A	1.000	B
55238C	SIMPSON VERNE T	SANDOWNE BR	8794	31B	01	08A	4.000	B
55241C	WATSON DAVID C & KAREN Z	EMERALD POND	92.B.074.2.4	31C	01	08A	2.000	B
55304C	CROCKER ILLEEN M	CROCKER CR	92P/SE7-F	02B	01	08A	50.000	B
55327C	BURROWS BRUCE & LINDA & S	GLYN CR	92L/11-E(H)	17B	01	08A	1.500	B
55334F	RIDLEY CLEMENT H & MARJOR	MARION BR	92.B.033.3.4	31B	01	08A	.900	B
55337C	B C FOREST PRODUCTS LIMIT	FARLEY CR	8793B	31B	01	08A	90.000	B
55346C	VOAKES ENTERPRISES INC	NINE MILE CR	1508	07A	01	08A	10.000	B
55421C	VAN ROODE THEODORUS P & C	DOUGHERTY CR	93.G.078	24C	01	08A	10.000	B
55427C	KLASSEN NORBERT & JUDY	NORBERT & JUDY SPRS	93.L.075	12C	01	08A	1.500	B
55456C	HINDSON ROBERT E	RATNIP CR	82E/12-H	07B	01	08A	16.570	B
55458C	HINDSON ROBERT E	RATNIP CR	82E/12-H	07B	01	08A	40.000	B
55460C	OHMAN MICHAEL D & SUSAN M	RATNIP CR	82E/12-H	07B	01	08A	1.340	B
55462C	INDIAN ROCK ORCHARDS LTD	RATNIP CR	82E/12-H	07B	01	08A	1.204	B
55464C	REEVES ROBERT	RATNIP CR	82E/12-H	07B	01	08A	1.600	B
55471C	MAGUIRE MICHAEL D & JOAN	WHELAN CR	93.G.086	24B	01	08A	.500	B
55505C	LEWYNSKY PETER & RUTH	HALDANE CR	3710	13C	01	08A	12.700	B

Lic.#	Owner	Source	Location	Precinct	#PRP	PRP	QTY	Units
55517C	SOLTIS ANDREW & THERESA	MCKIBBEN CR	92.I.033.1.3	02C	01	08A	52.000	B
55526C	STADACONA PROPERTIES LTD	FARLEY CR	8793B	01B	01	08A	.670	B
55535C	SCHALLES JOHN W & IRMA G	CHIMNEY CR	92.O.100	05E	01	08A	136.000	B
55537C	WEINGART G	CHIMNEY CR	92.O.100	05E	01	08A	164.000	B
55543C	SYLVAN HOLDINGS LIMITED	PROVY CR	93.G.087	24D	01	08A	25.000	B
55568C	DUCKS UNLIMITED (CANADA)	SPARKS CR	384	02F	01	08A	15.000	B
55571C	DUCKS UNLIMITED (CANADA)	SPARKS CR	384	02F	01	08A	65.000	B
55597C	HINDSON ERLEND E	RATNIP CR	82E/12-H	07B	01	08A	15.670	B
55698C	VELD JACK & JENNIFER A	CHARCOAL CR	3710	13D	01	08A	100.000	B
55702C	MILLER RANCHES LTD	KANEVALE CR	6060	21B	01	08A	100.000	B
55734F	BUCHANAN KATHLEEN & CHERY	SABISTON CR	4804F	17A	01	08A	38.400	B
55736C	HAYES DONALD & HARRIET	RICHARDS CR	8708C	31A	01	08A	21.000	B
55738C	MAYNE AIRFIELD INCORPORAT	VILLAGE BAY CR	92.B.084.1.4	31C	01	08A	30.000	B
55740F	BOOTH BAY RESORT LTD	ACLAND SPR	92.B.083.3.2	31C	01	08A	1.7[illegible]	B
55741F	BRADLEY WILLIAM H & VIOLE	ACLAND SPR	92.B.083.3.2	31C	01	08A	1.540	B
55832C	ORR CECIL G & AUDREY P	MCINNES BR	5175H	19E	01	08A	.750	B
55834C	DIXON JULIA B	MCINNES BR	5175H	19E	01	08A	.750	B
55948C	NEUBRAND EMIL	POWELL CR	5100A	18A	01	08A	5.200	B
55950C	JEFFERY FLOYD & JOAN B	POWELL CR	5100A	19A	01	08A	10.400	B
55952C	SMITH JAMES L & KATHERINE	POWELL CR	5100A	18A	01	08A	5.200	B
55954C	ENYEDY VERNER W & GWENDOL	POWELL CR	5100A	13A	01	08A	6.500	B
55971F	ARNASON DANIEL	GUICHON CR	92.I.036.4.2	21A	01	08A	30.000	B
55993C	MOEN SELMER A & DORA J	MOEN SWAMP	25	01A	01	08A	15.000	B
55995F	POTHORIN MICHAEL T	COTTERILL BR	92.B.032.3.4	31B	01	08A	2.500	B
55999F	BYNG-HALL DESMOND O & ELI	ACLAND SPR	92.B.083.3.2	31A	01	08A	1.120	B
56002F	GINN IVOR G & ANNIE	ACLAND SPR	92.B.083.3.2	31C	01	08A	1.420	B
56010								
56032C	MACDOUGALL WALLACE J & CA	PETERSON CR	92P/SE	13B	01	08A	10.000	B
56034C	PRICE DAVID R	PETERSON CR	92P/SE	13B	01	08A	61.000	B
56101C	MILLER FRANKLIN D & LORRA	BALDIE CR	92.I.016.3.2	21A	01	08A	10.000	B
56130C	HOURIGAN PATRICK J & KATH	HEWITT CR	92.B.033.3.4	31B	01	08A	3.000	B
56132C	WALKER VERONICA E	HEWITT CR	92.B.033.3.4	31B	01	08A	1.000	B
56220C	JACKSON ANTHONY L & DANIE	BLOC CR	93.L.066	12C	01	08A	50.000	B
56224C	UNITED KENO HILL MINES LT	KENO LK	104M(15-6)	13	01	08A	100.000	B
56309C	GERARD GUICHON RANCH LTD	STUMPLAKE CR	6154	21D	01	08A	45.000	B
56311C	GERARD GUICHON RANCH LTD	STUMPLAKE CR	6154	21D	01	08A	15.000	B
56330C	WILDERNESS MOUNTAIN WATER	WILLIAM BR & WILFRED BR	92.B.032.4.2	31B	01	08A	46.000	B
56334C	KNUTH BO A & CHARLOTTE	KIER CR	8708C	31A	01	08A	20.000	B
56359C	STEELE WILLIAM H	HAYES CR	92.H.069.4.3	23C	01	08A	29.670	B
56361C	SMITH GORDON L	HAYES CR	92.H.069.4.3	23C	01	08A	23.350	B
56363C	STEELE WILLIAM H	HAYES CR	92.H.069.4.3	23C	01	08A	1.320	B
56365C	DAWSON JAMES F	CHAIN LK	92.H.069.4.3	23C	01	08A	5.660	B
56367C	WILLOW HEIGHTS RANCH LTD	OTTER CR	6995	23D	01	08A	100.000	B
56376C	GRAY ALAN & JEAN	BALDY W & MCCUDDY CR	1511	07A	01	08A	10.000	B
56378C	HAYES CECIL J & LILA M	W FK BALDY & MCCUDDY CRS	1511	07A	01	08A	10.000	B
56380C	FEDOR J A	N NINE MILE CR	1508	07A	01	08A	50.000	B
56391C	TOPORCHAK JOHN V & DEANNA	HERRICK CR	82L.034.4.1	30F	01	08A	50.000	B
56398C	TOPORCHAK JOHN V & DEANNA	GREENHOW CR	82L034.2.3	30F	01	08A	160.000	B
56405C	LINCWSKI JEROLD & VELMA	DAVY POND #1 & 2	8524	30G	01	08A	3.150	B
56407C	WHITE DOUGLAS & MARILYN	DAVY PONDS	8524	30G	01	08A	3.150	B
56409C	SUDDABY GEOFFREY & ROBIN	DAVY PONDS	8524	30G	01	08A	2.750	B
56411C	SMITH BRIAN & EVA	DAVY PONDS	8524	30G	01	08A	3.000	B
56413C	MOEN THOMAS & MARA	DAVY PONDS	8524	30G	01	08A	2.450	B
56415C	GOGUEN NORMAN & SUSAN	DAVY PONDS	8524	30G	01	08A	3.100	B
56419C	WHITE DOUGLAS & MARILYN	DAVY PONDS	8524	30G	01	08A	3.150	B
56468C	WIEBE P NORMAN	DEMERS CR W	8524B	30G	01	08A	4.000	B
56470C	APPIN FARMS CORPORATION	BELLEVUE CR	8417B	30A	01	08A	3.860	B
56472C	ARTHUR WILLIAM L & ELIZAB	BELLEVUE CR	8411 & 8417B	30A	01	08A	3.160	B
56599C	LORD DAVID W & LORRAINE E	LANGMAN POND	3703	13B	01	08A	6.050	B
56601C	EVANS LESLIE & CAROL	LANGMAN POND	3703	13D	01	08A	.940	B

DAMS

Lic.#	Owner	Source	Location	Precinct	#PRP	PRP	QTY	Units
56606C	GRAVES ARTHUR G & DONNA E	MARTIN CR	3705	13D	01	08A	10.000	B
56652C	SLOAN CLIFFORD R	JOHANSEN SWAMP	92.F.057.1.3	17C	01	08A	3.000	B
56674C	IMPERIAL METALS CORPORATI	BLAKEBURN CR	92H/7-W(F)	23C	01	08A	200.000	B
56767C	LUND LARRY A & MAY M	LUND POND	92I.037.1.3	21A	01	08A	10.000	B
56795C	FALK GUNTER O & HANNELORE	HOLCOMB CR	8709B	31A	01	08A	3.000	B
56804C	STEWART GORDON W & JOCELY	HEWITT CR	92.B.033.3.3	31B	01	08A	.900	B
56807C	COWELL CHARLES E & DONNAL	HEWITT CR	92.B.033.3.3	31B	01	08A	1.100	B
56846C	BAKER WALLACE R & VERA M	WALROY LK	8424A	30A	01	08A	28.000	B
56869C	SUMMERLAND DISTRICT OF	ENEAS CR	1603	07C	01	08A	360.000	B
56875C	WILLOW HEIGHTS RANCH LTD	OTTER CR	6995	23D	01	08A	120.000	B
56877C	OLD JOHN A & BARBARA A	SHINISH CR	6972	23C	01	08A	7.000	B
56907C	TEMPLE JACK J	JONES BR	94A.035	22B	01	08A	2.000	B
56909C	TEMPLE JACK J	JACK BR	94A.035	22B	01	08A	2.000	B
57036C	DAVIS WARREN B & JOANNE W	DAVIS POND	3668	13C	01	08A	25.000	B
57090C	WEST VANCOUVER DISTRICT O	DICK CR	8101A	29E	01	08A	1032.000	B
57100C	SLADE GINGER G	SLADE SPR	92.F.057.2.1	17C	01	08A	30.000	B
57102C	DELCOR HOLDINGS LTD	HICKOK CR	92F/NW	17C	01	08A	40.000	B
57105C	ATKINS EDWARD L & BARBARA	KNOLL BR	8751C	31C	01	08A	.500	B
57109C	VASKO JOSEPH & OLGA G	HOUDRY CR	8723	31A	01	08A	.900	B
57176C	PEARSE A & ALEXANDER L &	VICTOR CR	93.L.076	12C	01	08A	10.000	B
57251C	FALLIS HUGH M	MONTE CR	3704	13D	01	08A	15.000	B
57253C	BLANC LOUIS C	CHUM LK	3707	13D	01	08A	70.000	B
57295C	DAVIE DIANE	HELENA LK	92P/13-E(B)	05E	01	08A	2.000	B
57300C	RANDALL MILTON L & BEVERL	HOCKE BR	92.B.032.3.1	31B	01	08A	6.300	B
57400C	J A MENZIES LTD	MENZIES LK	6059	21B	01	08A	50.000	B
57409C	PARKSVILLE TOWN OF	ARROWSMITH & HIDDEN LKS	4810& 92F/2(H)	17A	01	08A	650.000	B
57444C	HOWARD HENRY D	HOWARD CR	93.L.057	12C	01	08A	2.000	B
57484C	MILLER RANCHES LTD	KANEVALE CR	6060	21B	01	08A	243.750	B
57497C	CHRISTENSEN PATRICIA A	HOLT CR	8793C	31B	01	08A	5.000	B
57499C	UJFALUSI MARIAN E	HOLT CR	8793C	31B	01	08A	10.000	B
57503C	LIMBRANT HOLSTEINS FARMS	DYKEMA BR & GROENEWOLD CR	8701F	31A	01	08A	14.100	B
57528C	OOSTERHOFF PIETER I	GOLDONI CR	93.L.056	12C	01	08A	.500	B
57635C	DEWEY FLOYD D & PEGGY A	STERN CR	92P/13-E(B)	05E	01	08A	38.000	B
57638C	WEETMAN WILFRED F	CHIMNEY CR	1138	05E	01	08A	14.000	B
57640C	WEETMAN WILFRED E	CHIMNEY LK	1138	05E	01	08A	14.000	B
57642C	DOYLE LEANDER J J	CHIMNEY CR	1138	05E	01	08A	70.000	B
57736C	AULSTED LOUISE L	AULSTEAD SPRS	93.L.056	12C	01	08A	60.000	B
57739C	NELSON WILLIAM T	NELSON CR	103I.089	12B	01	08A	70.000	B
57843C	LOMBARDY INVESTMENT CORPO	MCDOUGALL CR	8492	30D	01	08A	100.000	B
57848C	PEACHLAND MUNICIPALITY OF	MILE CR	8493 & 82E/13W	30D	01	08A	80.000	B
57855C	PEACHLAND MUNICIPALITY OF	SILVER CR	8493	30D	01	08A	9.000	B
57857C	PEACHLAND MUNICIPALITY OF	SILVER CR	8493	30D	01	08A	4.560	B
57868C	PEACHLAND MUNICIPALITY OF	SILVER CR	8493	30D	01	08A	15.000	B
57870C	PEACHLAND MUNICIPALITY OF	SILVER CR	8494	30C	01	08A	31.500	B
57875C	MOELLER HENRY P & ANNE-RO	TREPANIER CR	82E/NW(D-2)	30C	01	08A	39.000	B
57949C	RONNING RALPH B & GEORGIN	SHATFORD CR & MARRON R	1552 & 1554	07B	01	08A	47.000	B
57952C	WOODS WAVERLY & JOAN	SHATFORD CR & MARRON R	1552 & 1554	07B	01	08A	17.000	B
58006C	CHAMBERS DONALD T	GWEN CR	6059	21B	01	08A	120.000	B
58021C	REDEKOPP JAMES & JOANNE G	WIGGINS CR	1168	05D	01	08A	60.000	B
58029C	RESH LYLE W & BETTY L	CHIMNEY CR	1138	05E	01	08A	40.000	B
58037C	ETZERZA PAMELA M	GENERAL CR	93.B.058	26A	01	08A	25.000	B
58043C	STEVEDORE HOLDINGS LIMITE	HUBAND SWAMP	4821	17C	01	08A	30.000	B
58096C	HIGH VALLEY HOLDINGS LTD	KENT CR	93.G.067	24D	01	08A	2.000	B
58114C	WISEMAN ROBERT F	MCDONALD CR	93.L.010	12C	01	08A	2.500	B
58122C	ROBIN CREEK DAIRY LTD	DE JONG CR	93.L.066	12C	01	08A	1.000	B
58126F	WEST KOOTENAY POWER & LIG	KOOTENAY R	5301A	18N	01	08A	435000.000	B
58127F	COMINCO LTD	KOOTENAY R	5301A	18A	01	08A	405000.000	B
58128C	FARLEIGH LAKE W U C	SHINGLE CR	1557	07B	01	08A	81.200	B
58200C	POTHORIN MIKE	COTTERILL BR	92.B.032.3.4	31B	01	08A	2.500	B
58256	"GREENHILLS INDUSTRIAL"	GREENHILLS CR						

DAMS

Lic.#	Owner	Source	Location	Precinct	#PRP	PRP	QTY	Units
58268C	POJAR ROSAMUND A & JAMES	CABELL CR	93.L.075.3.2.2	12C	01	08A	1.000	B
58313C	SABOURIN DONALD B & LORRA	CLEAR CR	103.I.087	25C	01	08A	.500	B
58347C	POWER FRANCES J	STARREM CR	3091	11D	01	08A	7.500	B
58373C	FROLEK CATTLE CO LTD	CAMPBELL CR	92.I.059.2.3	13D	01	08A	22.500	B
58375C	FROLEK CATTLE CO LTD	CAMPBELL CR	92.I.059.2.3	13D	01	08A	63.000	B
58422C	GOMERICH GEORGE & LOIS	BECK LK	4805B	17A	01	08A	30.000	B
58424C	TOLLEY STEWART D & JANICE	TOLLEY POND	4805	17A	01	08A	1.500	B
58426C	WAKEFIELD ENID J	RORKE SWAMP	4802B	17A	01	08A	18.000	B
58441C	GURR PAUL W	MILLARD CR	4819A	17C	01	08A	4.000	B
58443C	WILKINSON MOLLY E	RUDD SPR	4812C-1	17C	01	08A	2.000	B
58451C	CEJKA MILAN & SANDRA	DANMARK CR	92F/8(F)	17C	01	08A	1.500	B
58453C	FINLAY GORDON JAMES	CONSTANCE SWAMP	92F/8(F)	17C	01	08A	1.500	B
58455C	SPENCER TERENCE P & ROBER	BEAR CR	92F/14-E	17C	01	08A	1.000	B
58457C	LAKE HILL FARM	STAPLETON CR	92F/8F	17C	01	08A	2.000	B
58461C	JECK RALPH P M	DICK BR	92G/4(G)	17A	01	08A	3.000	B
58467C	THOMAS HOWARD E & ROSE V	LUGRIN CR	92.F.026.4.4	01A	01	08A	1.000	B
58483C	RAINSFORD FRANK & JOAN L	RAINSFORD SPR	8793B	31B	01	08A	2.000	B
58487C	HOWE JOHN W & S ROSEMARY	COULSON CR	92.B.084.1.2	31C	01	08A	.670	B
58553C	STEVENS ROBERT G & DOLORE	BENCH SLOUGH	3706	13D	01	08A	5.670	B
58560C	PERKINS GLEN F	HAPPY CR	92.F.066.3.1	17C	01	08A	3.500	B
58581C	HEATH WILLIAM A & VALERIE	ROBERTS BR	8707B	31A	01	08A	2.500	B
58596C	FROLEK CATTLE CO LTD	CAMPBELL CR	92.I.059.2.3	13D	01	08A	37.500	B
58638C	PENTICTON CITY OF	OVID CR	82E/6W(E)	07B	01	08A	84.000	B
58646C	GUY JONATHAN C	MACDONALD CR	92.B.075.3.3	31C	01	08A	15.000	B
58650C	MACARTHUR JEAN R	KERRY BR	8792A-1	31B	01	08A	2.670	B
58715C	LUDWIG FRITZ W & LUCILLE	RICHARDSON CR & HUTTEN CR	92-J-015-2-1	21B	01	08A	50.000	B
58735C	VAN DER WIJK SIEVERT	SIEVERT BR	93.L.047	12C	01	08A	1.000	B
58737C	CLEMENT DIANNE	DIFFIN CR	92.B.083.4.1	31C	01	08A	2.000	B
58739C	MOUAT THOMAS W & GAVIN H	DIFFIN CR	92.B.083.4.1	31C	01	08A	1.500	B
58741C	MOUAT THOMAS W	DIFFIN CR	92.B.083.4.1	31C	01	08A	1.500	B
58743C	MOUAT OLIVIA D	DIFFIN CR	92.B.083.4.1	31C	01	08A	1.000	B
58751C	RENAUD LOUIS	RICHARDSON SPR	92B.093.1.1	31C	01	08A	.250	B
58754C	MITCHELL JOHN H	MITCHELL POND	92B.074.4.1	31C	01	08A	15.300	B
58756C	SIMONYI JOSEPH & MAGDALEN	KATHEAR BR	8793C	31B	01	08A	1.600	B
58762C	PETERSEN ALBERT	HANDYSEN CR	8750K	31C	01	08A	5.000	B
58765C	TURNER ADRIAN & JOYCE	TURNER SWAMP	4820	17C	01	08A	.500	B
58797C	PLESTER GERALD F	ASKEW CR	8719B	31A	01	08A	20.000	B
58857C	BOYES WILLIAM T & CATHERI	CHICKEN CR	1007	05B	01	08A	70.000	B
58899C	CAMPBELL NORMAN L	ROBBINS CR	3690	13D	01	08A	52.600	B
58916F	ROBERTSON WILLIAM H	MALINDA CR	93.B.058	05D	01	08A	21.000	B
58971C	FISHERIES SERVICE	TOM BROWNE CR	92K/12(G)	17D	01	08A	4330.000	B
58976C	TAKALA FARM LTD	WHITEHEAD BR	4802C	17A	01	08A	.500	B
59003C	STEINER ARNOLD W	RIBBLEWORTH CR	82.L.004.3.3	30C	01	08A	1.000	B
59018C	MONEY BROTHERS & PEDERSON	MONEY CR	92.B.075.3.3	31C	01	08A	7.000	B
59090C	CLARE GARNET G & DIANA M	SKOOKUM CR	8790D	31B	01	08A	3.000	B
59092C	VERHAGEN JOHN G & FAY L	VERHAGEN SPR	8793C	31B	01	08A	2.500	B
59094C	JORDAN KENNETH J & EDITH	MUNN CR	8792B	31B	01	08A	1.600	B
59119C	ROUW WILLEM D	BEECHER CR	6618B	25A	01	08A	.500	B
59141F	INDIAN GARDENS RANCH LTD	DURAND CR	3760	13F	01	08A	71.500	B
59143C	INDIAN GARDENS RANCH LTD	DURAND CR	3760	13F	01	08A	202.500	B
59144C	INDIAN GARDENS RANCH LTD	DURAND CR	3760	13F	01	08A	43.000	B
59145C	INDIAN GARDENS RANCH LTD	DURAND CR	3760	13F	01	08A	27.000	B
59163F	PRINGLE ESTATES	MONTE CR	3704	13D	01	08A	290.500	B
59212C	INDIAN AFFAIRS BRANCH (BE	QUARANTINE LK	92.B.033.1.3	31B	01	08A	22.000	B
59272F	INDIAN GARDENS RANCH LTD	FERGUSON CR	3760	13F	01	08A	60.000	B
59323C	DUCKS UNLIMITED (CANADA)	SCUITTO CR	3692	13D	01	08A	132.200	B
59328F	SUMMERS CREEK RANCH	SUMMERS CR	6969	23C	01	08A	32.000	B
59346C	HUARD ROBERT J	FRIDLINGTON CR	93.B.058	26B	01	08A	5.500	B
59430F	FORT ST JOHN CITY OF	CHARLIE LK	94.A.026	22B	01	08A	6000.000	B
59472C	GALLACHER NEIL & JULIE	HALDANE CR	3710	13D	01	08A	3.200	B

DAMS

Lic.#	Owner	Source	Location	Precinct	#PRP	PRP	QTY	Units
59504C	KINGSMILL PHYLLIS	EDSON SLOUGH	8594	30F	01	08A	61.000	B
59506C	KINGSMILL PHYLLIS	LOTTE SLOUGH	8594	30F	01	08A	160.000	B
59513C	HUNT CLIFFORD & MARGUERIT	VANDER-PUTTEN BR	92.B.074.4.3	31C	01	08A	14.000	B
59565C	DUCKS UNLIMITED (CANADA)	DIXON CR	3637	13B	01	08A	80.000	B
59593C	STRATA PLAN VR 704 OWNERS	JOSEPHINE CR	92.G.034.1.3	29C	01	08A	6.000	B
59655C	DAVIS FREDERICK W & JOAN	MORELAND CR	4802F	17A	01	08A	1.100	B
59660C	HOREL STEVE	TSOLUM R	4820	17C	01	08A	2.000	B
59662C	SALT SPRING RECREATIONAL	BOGEY BR	92.B.083.3.2	31C	01	08A	12.200	B
59668C	OCSKO ELIZABETH A	PIRART BR	92.B.093.3.1	31C	01	08A	5.500	B
59677C	HENRICH BERTA	KEDDY CR	92F/14E	17C	01	08A	160.000	B
59679C	GOODALL JOHN J & ALMA C	GOODALL #1 #2 #3 SPRS	92.B.084.1.4	31C	01	08A	13.500	B
59681C	ELZINGER AUKE & SHEILA M	DALZELL CR	8708C	31A	01	08A	100.000	B
59687C	KOWALL CHARLES FRANCIS	HALE CR	4854	17B	01	08A	.330	B
59690	"NANAIMO RECREATION"	CHASE CR						
59691	"NANAIMO RECREATION"	CHASE CR						
59698C	MORNINGSIDE FARM LTD	HEATHER BANK BR	8700E	31A	01	08A	10.000	B
59700C	MAY DANIEL B & MARLENE M	INWOOD CR	8705D	31A	01	08A	30.000	B
59706C	HEIZER STEPHEN R	PRIEST CR	4802B	17A	01	08A	5.000	B
59710C	JENSEN ROBERT & BARBARA	ROMNEY CR	4809	17A	01	08A	6.000	B
59874C	WHITEHEAD GERALD R	MISTY CR	3845C	13I	01	08A	1.500	B
59905C	DUCKS UNLIMITED (CANADA)	CURRY LK	3692	13D	01	08A	17.100	B
60003C	INVERMERE DISTRICT OF	GOLDIE CR	2962	10H	01	08A	350.000	B
60072C	MAHON ELLA	JOHN COLLINS CR	5175F	15E	01	08A	25.000	B
60109C	GENTLES JOSEPH D & TERRY	SPICE ONE & TWO SPRS	93.B.068.2	25B	01	08A	6.000	B
60125C	100 MILE HOUSE VILLAGE OF	BRIDGE CR	92.P.11/E(B)	05B	01	08A	2696.000	B
60172C	SHORT MARJORIE A & INNES	COLLEY CR & E COLLEY CR	93.L.010	[illegible]	01	08A	32.000	B
60192C	COULSON THOMAS M & EVA M	COULSON BR	93.L.067	[illegible]	01	08A	10.000	B
60205C	EWALD GERALD & FLORABELLE	HARLEY CR	93.L.067	[illegible]	01	08A	.500	B
60215F	CRAFT NORMAN R	AIRPORT BR	103.I.047	[illegible]	01	08A	1.000	B
60241C	MACIVOR DAVID S	BLOC CR	93.L.067	[illegible]	01	08A	7.000	B
60243C	KARY HAROLD F & IRENE K	VICTOR CR	93.L.075	[illegible]	01	08A	.200	B
60270C	PELLERIN REJEAN	LITTLE TONEKO CR	93.H.093	24C	01	08A	1.000	B
60355C	DORRELL DANIEL C & SHEILA	DORREL BR	8596A	30F	01	08A	3.000	B
60391C	WILCOX CHRISTOPHER R & GE	THIMBLE BR	8433	30	01	08A	5.000	B
60395C	CORRIS SHIEL M	THIMBLE BR	8433	[illegible]	01	08A	5.000	B
60408C	JAME HIGGINS RANCH LTD	HIGGINS CR	8438	[illegible]	01	08A	5.000	B
60420C	NAHM TILMAN E & F MAE	NAHM CR	8525A	[illegible]	01	08A	75.000	B
60461C	SILVER STAR UTILITIES COR	ATTRIDGE BR	82L/6E(A)	[illegible]	01	08A	4.000	B
60490C	CAPITAL REGIONAL DISTRICT	SHINGLE CR	92.B.074.4.3	[illegible]	01	08A	143.000	B
60492C	CAPITAL REGIONAL DISTRICT	PENDER LK	92.B.074.4.1	[illegible]	01	08A	60.000	B
60495C	KALNIN PHILIP & BARBARA	STRUDWICK BR	4809	[illegible]	01	08A	6.400	B
60497C	NICHOLSON JACK	STRUDWICK BR	4809	17A	01	08A	1.500	B
60529C	SANDERS ROBERT A C	BALLO CR	3095	[illegible]	01	08A	40.000	B
60537C	NORGREN CARL R & BEVERLY	TRANQUILLE R	92I/15-E(B)	[illegible]	01	08A	20.000	B
60575C	AYLARD RICHARD A	ZETTERGREEN POND	8525C	[illegible]	01	08A	10.000	B
60624C	PALFREY WILFRED & MINNIE	LARULLA CR	8790D	[illegible]	01	08A	.250	B
60668C	GIESBRECHT HAROLD P & NAN	BEAVERLEY CR	93.G.076	24E	01	08A	450.000	B
60677C	STRATHCONA PARK LODGE & O	BAIKIE CR	92F/NW	[illegible]	01	08A	740.000	B
60678C	BLENKINSOP LAKE W U C	BLENKINSOP CR	8792A	[illegible]	01	08A	64.000	B
60701C	DICKERSON BILL L	DICKERSON POND	93.L.075.3.2.4	[illegible]	01	08A	2.500	B
60766C	BUNTING JOHN E	HAYWOOD SWAMP	384	[illegible]	01	08A	20.000	B
60773C	108 MILE WATERWORKS CO LT	SUCKER LAKE	1135	[illegible]	01	08A	180.000	B
60784C	BUTCHART GARDENS LTD	DURRANCE LK	8792B	[illegible]	01	08A	30.000	B
60811F	PIKE MOUNTAIN RANCH LTD	GULLIFORD CR	6992	[illegible]	01	08A	30.000	B
60829C	W KRAUSE LOGGING LTD	ELLISON SPR	82.L.004.3.4	[illegible]	01	08A	3.000	B
60831C	W KRAUSE LOGGING LTD	RIDPATH SPR	82.L.004.3.4	[illegible]	01	08A	3.000	B
60833C	CLAVIER ANDRE J	NORRIE CR	93P/NE(15C)	[illegible]	01	08A	2.000	B
60835C	BURG RUDOLF & DIANA	LITTLE ROCK CR	93.G.077	24C	01	08A	2.750	B
60839C	EDGEWATER IMPROVEMENT DIS	MACAULEY CR	2951A	[illegible]	01	08A	20.000	B
60867C	FROLEK CATTLE CO LTD	FROGMOORE CR	92I/7E(G)	[illegible]	01	08A	24.000	B

DAMS

Lic.#	Owner	Source	Location	Precinct	#PRP	PRP	QTY	Units
60904C	WESTERN PULP INC	MARBLE R	92L/SW	01B	01	08A	16000.000	B
60933C	MATHERS WILLIAM J B	ERDLEY CR	4802F	17A	01	08A	.700	B
60935C	BAKER HARRY & BETTY M	ERDLEY CR	4802F	17A	01	08A	.700	B
60937C	MATHERS W JOHN & WENDY A	ERDLEY	4802F	17A	01	08A	56.300	B
60940C	MILLER MELVIN R	MELVIN BR	3500	12A	01	08A	20.000	B
61008C	DUCKS UNLIMITED (CANADA)	TIN CUP CR	92P/6W(C)	02B	01	08A	54.000	B
61011C	SQUAREY DAVID & ELIZABETH	SQUAREY SPR	260	02J	01	08A	2.000	B
61065C	GLEN ALLEN JR & GINGER	SOLEMN SPR	331	02E	01	08A	4.500	B
61096C	WOOLMAN LEWIS H	YARD CR	92P/SE(2E)	02F	01	08A	50.000	B
61101C	TOLY STEVEN ESTATE OF	BROCK CR	3711E	13D	01	08A	1.000	B
61137								
61141C	GUICHON CREEK W U C	GUICHON CR	92I.036.4.2	21A	01	08A	1700.000	B
61158C	DUCKS UNLIMITED (CANADA)	WEST MIDDAY CR	6054	21B	01	08A	82.300	B
61307C	HANDLEY DAVID L & OLIVE M	PRIEST CR	4802B	17A	01	08A	1.000	B
61309C	HEALD GLEN C & BEVERLEY J	PRIEST CR	4802B	17A	01	08A	1.000	B
61311C	STRAUMFJORD WAYNE B & CAR	PRIEST CR	4802B	17A	01	08A	6.000	B
61313C	PLUMPTON CLIVE W	PRIEST CR	4802B	17A	01	08A	4.000	B
61315C	WARNOCK VERNON A & TAMI J	PRIEST CR	4802B	17A	01	08A	1.000	B
61317C	PIERCY RAY W & PATRICIA	WOOD SWAMP	92F.056.2.4	17C	01	08A	7.500	B
61319C	SALTAIR WATERWORKS DISTRI	STOCKING LK	4800	17A	01	08A	440.000	B
61321C	GRAHAM LAKE WATER SUPPLY	GRAHAM LK	92.F.057.1.2	17C	01	08A	38.000	B
61338C	ELLIOTT JOHN	PENWELL SPRS	8793B	31B	01	08A	1.000	B
61359C	DEWAR PERCY E & PENELOPE	EIRIKSON CR	92F/NW	17C	01	08A	9.000	B
61367C	MURPHY OLIVE E	METRAL CR	4807	17A	01	08A	10.000	B
61369C	MURPHY OLIVE E	RANNIES CR	4807	17A	01	08A	5.000	B
61377C	MAYALL JAN KATHERINE	BLANCHETTE CR	92F/8F	17C	01	08A	1.000	B
61393C	FOSTER ERIC & ANN	HOSIE BR	4820	17A	01	08A	3.000	B
61396C	DAVIDSON BRUCE M	DAVE BR	92.B.033.1.3	31B	01	08A	1.400	B
61400C	MCNAB ARCHIBALD A	MCGUIRE SWAMP	4802F	17A	01	08A	46.000	B
61402C	PEACOCK MICHAEL & SANDRA	MALLETT CR	92S/4(F)	17A	01	08A	18.000	B
61410C	PERESZLENYI STEPHEN & BON	SANDOR BR	8708A	31A	01	08A	1.000	B
61415C	WEIGHILL JOHN & SYBIL & A	CRAIG CR	4809	17A	01	08A	20.000	B
61521C	JACKSON ROY & AGNES	NAPIER LK	3695	13D	01	08A	72.750	B
61523C	JACKSON ROY & AGNES	NAPIER LK	3695	13D	01	08A	40.750	B
61525C	HAUGHTON MARGARITA	NAPIER LK	3695	13D	01	08A	6.500	B
61564F	BOWERS ARTHUR A	CHERRY CR	3759	13F	01	08A	59.000	B
61600C	PRITCHARD COLIN A	TOLMIE CR & BIGGAR DITCH	92G.008.1.3	20C	01	08A	3.000	B
61602C	KEHLER FRED	POIGNANT CR	5700C	20A	01	08A	1.700	B
61677C	HONEYMOON CREEK W U C	HONEYMOON CR & LK	92G.044.1.1	29C	01	08A	1.990	B
61684C	AGRI MANAGEMENT CORP	TASKER ROAD DITCH	92.G.015.2.4	29F	01	08A	50.000	B
61863C	SMITH HENRY & ANNABELL	W ROSELAND CR	94A/NE	22B	01	08A	20.000	B
61944C	HIGGINS JOHN & JANICE	TOADEYE SWAMP	92G/4(G)	17A	01	08A	1.000	B
61968C	B C DEVELOPMENT CORPORATI	KAIEN CR	6703	25C	01	08A	.500	B
61993C	COPPER RIVER GUEST RANCH	DARLAN CR	93L/13	12B	01	08A	1.000	B
62063C	QUESTO DAVID G & JUDITH	QUESTO SPR	92.B.073.4.4	31C	01	08A	.500	B
62066C	MACKIE CINDY	MACKIE CR	8790D	31B	01	08A	4.000	B
62080F	COATS CLYDE H	HOGGAN LK	92G/4	17A	01	08A	62.000	B
62087C	WEST LLOYD W & PATRICIA A	CUTOFF VALLEY CR	331	02B	01	08A	74.172	B
62088C	50 BAR RANCH LTD	PORCUPINE CR	331	02B	01	08A	161.100	B
62094C	MATHEWS GLEN A & MARIE J	DEMERS CR	8524B	30G	01	08A	5.000	B
62112C	KRAHE ROLF	CYGNET CR	93.L.085	12C	01	08A	.670	B
62114C	BENOIT CECILE M	ANDERSON CR	4802F	17A	01	08A	2.000	B
62120C	HOWES VERNON R	SHOLLENBURG CR	93.P.053	22A	01	08A	80.000	B
62127C	PEACHLAND MUNICIPALITY OF	SILVER LK	8493	30D	01	08A	9.000	B
62144C	DANIELSON ARTHUR M	PORCUPINE CR	331	02B	01	08A	184.000	B
62169C	FARLEIGH LAKE W U C	SHINGLE CR	1554 & 1557	07B	01	08A	48.800	B
62184C	MOORE JOHN R & VICKI D	RICHTER CR	82.E.003.3.2	07A	01	08A	15.000	B
62195F	JELLICOE RANCHES LTD	HAYES CR	92.H.069.4.3	23C	01	08A	72.000	B
62207F	MANN HENRY Y	BALDY CR W FK/MCCUDDY CR	1507 & 1511	07A	01	08A	127.000	B
62209F	MANN HENRY Y	BALDY CR W FK/MCCUDDY CR	1507	07A	01	08A	58.300	B

DAMS

Lic.#	Owner	Source	Location	Precinct	#PRP	PRP	QTY	Units
62211F	MANN HENRY Y	BALDY CR	1307	07A	01	08A	40.000	B
62221C	LEDUC ANTONIO & PAULETTE	PATERSON CR	8596	30F	01	08A	1.000	B
62231C	JAMES HIGGINS RANCH LTD	HIGGINS CR	8438	30	01	08A	110.000	B
62294C	JELLICOE RANCHES LTD	HAYES CR	92.H.069.4.3	23C	01	08A	48.000	B
62298C	KRIEGER ARTHUR & THELMA F	HORN CR	1509	07A	01	08A	120.000	B
62301C	OUELLET LEO	CINQUEFOIL CR	352	02C	01	08A	71.500	B
62354C	GAGNE GARY S & ERNEST R	HOSKIN BR	92.B.093.1.1	31C	01	08A	3.000	B
62414C	MAYER DAVID P	HOWARD CR	93.L.057	12C	01	08A	1.330	B
62416C	MCLEOD GREGORY & MARGARET	ADLER CR	93.L.057	12C	01	08A	.670	B
62429C	GRAWEHR WALTER (DUCKS)	FIFTYNINE CR	335	02B	01	08A	66.500	B
62789C	BUTCHART GARDENS LTD	BUTCHART CR	8793B	31B	01	08A	3.500	B
62790C	BUTCHART GARDENS LTD	TOD CR	8792A-1	31B	01	08A	22.500	B
62798F	CLIFF RONALD L & NANCY M	BARNES CR	303	02A	01	08A	92.500	B
62801C	RAFTER S R RANCH LTD	BARNES CR	303	02A	01	08A	33.000	B
62825C	YOUNG WALTON R & GEORGE R	PATERSON CR	8596	30F	01	08A	1.250	B
62826C	YOUNG WALTON R & GEORGE R	PATERSON CR	8596	30F	01	08A	1.250	B
62848C	WERNER ALBERT B	E DUTCHMAN CR	8433	30	01	08A	2.000	B
62870C	LEWIS OSRIC M	FOURTH OF JULY CR	1511	07A	01	08A	45.000	B
62961C	WATER MANAGEMENT BRANCH	NICOLA R	92.1.017.4.1	21A	01	08A	43200.000	B
62975C	CARTER DON & CLAIRE	LALUWISSIN CR	344	02C	01	08A	50.000	B
62977C	REUTER WINFRIED S & ASTRI	LALUWISSIN CR	344	02C	01	08A	50.000	B
62979C	FENNELL JAMES A & MARGARE	LALUWISSIN CR	344	02C	01	08A	50.000	B
62981C	REUTER WINIFRIED G & ASTR	LALUWISSIN CR	344	02C	01	08A	97.330	B
62983C	FENNELL JAMES A & MARGARE	LALUWISSIN CR	344	02C	01	08A	270.670	B
63019C	LORNEX MINING CORPORATION	THOMPSON R	301	02A	01	08A	1100.000	B
63061C	DEWDNEY-ALOUETTE REGIONAL	DICKSON CR	5250	20H	01	08A	4600.000	B
63219C	HOOD POINT IMPROVEMENT DI	HONEYMOON CR	92.G.044.1.1	29C	01	08A	4.980	B
63221C	HOOD POINT IMPROVEMENT DI	HONEYMOON LK	92.G.044.1.1	29C	01	08A	2.822	B

DAMS

Lic.#	Owner	Source	Location	Precinct	#PRP	PRP	QTY	Units
61163C	EGELY EVELYN R	RORISON CR	6000	21A		08A	15.000	B
61200C	RAINBOW CREEK RANCH CO LT	NIUINILL CR	3600	13A		08A	8.000	B
61307C	HANDLEY DAVID L & OLIVE M	PRIEST CR	4802B	17A	01	08A	1.000	B
61309C	HEALD GLEN C & BEVERLEY J	PRIEST CR	4802B	17A	01	08A	1.000	B
61311C	STRAUMFJORD WAYNE B & CAR	PRIEST CR	4802B	17A	01	08A	6.000	B
61313C	PLUMPTON CLIVE W	PRIEST CR	4802B	17A	01	08A	4.000	B
61315C	WARNOCK VERNON A & TAMI J	PRIEST CR	4802B	17A	01	08A	1.000	B
61317C	PIERCY RAY W & PATRICIA	WOOD SWAMP	92F.056.2.4	17C	01	08A	7.500	B
61319C	SALTAIR WATERWORKS DISTRI	STOCKING LK	4800	17A	01	08A	440.000	B
61321C	GRAHAM LAKE WATER SUPPLY	GRAHAM LK	92.F.057.1.2	17C	01	08A	38.000	B
61338C	ELLIOTT JOHN	PENWELL SPRS	87938	31B	01	08A	1.000	B
61359C	DEWAR PERCY E & PENELOPE	EIRIKSON CR	92F/NW	17C	01	08A	9.000	B
61367C	MURPHY OLIVE E	METRAL CR	4807	17A	01	08A	10.000	B
61369C	MURPHY OLIVE E	RANNIES CR	4807	17A	01	08A	5.000	B
61377C	MAYALL JAN KATHERINE	BLANCHETTE CR	92F/8F	17C	01	08A	1.000	B
61393C	FOSTER ERIC & ANN	HOSIE BR	4820	17A	01	08A	3.000	B
61396C	DAVIDSON BRUCE M	DAVE BR	92.B.033.1.3	31B	01	08A	1.400	B
61400C	MCNAB ARCHIBALD A	MCGUIRE SWAMP	4802F	17A	01	08A	46.000	B
61400C	MCNAB ARCHIBALD A	SYLVIA CR	92.G.001.4.2	17A		08A	46.000	B
61402C	PEACOCK MICHAEL & SANDRA	MALLETT CR	92G/4(F)	17A	01	08A	18.000	B
61410C	PERESZLENYI STEPHEN & BON	SANDOR BR	8708A	31A	01	08A	1.000	B
61415C	WEIGHILL JOHN & SYBIL & A	CRAIG CR	4809	17A	01	08A	20.000	B
61467C	CAILLET ARMAND E	VAN TINE POND	92.F.030.2.1	17A		08A	5.000	B
61473C	EASTMAN ALLAN W & SHIRLEY	ASKEW CR	87188	31A		08A	4.000	B
61488C	LENNOX BERNARD W & JOSEPH	SHERWOOD SPRING BR	92.B.033.3.2	31B		08A	.500	B
61490C	LENNOX BERNARD W & JOSEPH	SHERWOOD SPRING BR	92.B.033.3.2	31B		08A	1.000	B
61496C	FISHERIES & OCEANS DEPART	QUATSE R	92.L.063	17B		08A	1300.000	B
61521C	JACKSON ROY & AGNES	NAPIER LK	3695	13D	01	08A	72.750	B
61523C	JACKSON ROY & AGNES	NAPIER LK	3695	13D	01	08A	43.750	B
61525C	HAUGHTON MARGARITA	NAPIER LK	3695	13D	01	08A	8.500	B
61564F	BOWERS ARTHUR A	CHERRY CR	3759	13F	01	08A	59.000	B
61600C	PRITCHARD COLIN A	TOLMIE CR & BIGGAR DIT	92G.008.1.3	20D	01	08A	3.000	B
61602C	KEHLER FRED	POIGNANT CR	5700C	20A	01	08A	1.700	B
61677C	HONEYMOON CREEK W U C	HONEYMOON CR & LK	92G.044.1.1	29C	01	08A	1.990	B
61684C	AGRI MANAGEMENT CORP	TASKER ROAD DITCH	92.G.015.2.4	20F	01	08A	50.000	B
61684C	AGRI MANAGEMENT CORP	TASKER ROAD DITCH	92.G.015.2.4	20F		08A	50.000	B
61861C	GLENMORE IRRIGATION DISTR	KELOWNA CR	82.E.094.3.3	30A		08A	182.000	B
61863C	SMITH HENRY & ANNABELL	W ROSELAND CR	94A/NE	22B	01	08A	20.000	B
61944C	HIGGINS JOHN & JANICE	TOADEYE SWAMP	92G/4(G)	17A	01	08A	1.000	B
61968C	B C DEVELOPMENT CORPORATI	KAIEN CR	6703	25C	01	08A	.500	B
61993C	COPPER RIVER GUEST RANCH	DARLAN CR	93L/13	12B	01	08A	1.000	B
61993C	COPPER RIVER GUEST RANCH	DARLAN CR	93L/13	12B		08A	1.000	B
62050C	REEDY BLYNN E & SHIRLEY A	EAST SIDE CR	93.F.091	12A		08A	50.000	B
62063C	QUESTO DAVID G & JUDITH	QUESTO SPR	92.B.073.4.4	31C	01	08A	.500	B
62066C	MACKIE CINDY	MACKIE CR	87900	31B	01	08A	4.000	B
62080F	COATS CLYDE H	HOGGAN LK	92G/4	17A	01	08A	62.000	B
62087C	WEST LLOYD W & PATRICIA A	CUTOFF VALLEY CR	331	02B	01	08A	74.172	B
62088C	50 BAR RANCH LTD	PORCUPINE CR	331	02B	01	08A	161.100	B
62094C	MATHEWS GLEN A & MARIE J	DEMERS CR	85248	30G	01	08A	5.000	B

Lic.#	Owner	Source	Location	Precinct#	PRP	PRP	QTY	Units
62112C	KRANE ROLF	CYGNET CR	93.L.085	12C	01	08A	.670	B
62114C	BENOIT CECILE M	ANDERSON CR	4802F	17A	01	08A	2.000	B
62120C	HOWES VERNON R	SHOLLENBURG CR	93.P.053	22A	01	08A	80.000	B
62127C	PEACHLAND MUNICIPALITY OF	SILVER LK	8493	30D	01	08A	9.000	B
62144C	DANIELSON ARTHUR M	PORCUPINE CR	331	02B	01	08A	184.000	B
62169C	FARLEIGH LAKE W U C	SHINGLE CR	1554 & 1557	07B	01	08A	48.800	B
62184C	MOORE JOHN R & VICKI D	RICHTER CR	82.E.003.3.2	07A	01	08A	15.000	B
62195F	JELLICOE RANCHES LTD	HAYES CR	92.H.069.4.3	23C	01	08A	72.000	B
62207F	MANN HENRY Y	BALDY CR W FK/MCCUDDY	1507 & 1511	07A	01	08A	127.000	B
62209F	MANN HENRY Y	BALDY CR W FK/MCCUDDY	1507	07A	01	08A	58.800	B
62211F	MANN HENRY Y	BALDY CR	1507	07A	01	08A	40.000	B
62221C	LEDUC ANTONIO & PAULETTE	PATERSON CR	8596	30F	01	08A	1.000	B
62231C	JAMES HIGGINS RANCH LTD	HIGGINS CR	8438	30	01	08A	110.000	B
62282C	MANN HENRY Y	BALDY CR	1507	07A		08A	12.000	B
62284C	JELLICOE RANCHES LTD	HAYES CR	92.H.069.4.3	23C	01	08A	48.000	B
62298C	KRIEGER ARTHUR & THELMA F	HORN CR	1509	07A	01	08A	120.000	B
62301C	OUELLET LEO	CINQUEFOIL CR	352	02C	01	08A	71.500	B
62328C	YARGEAU MELVIN D & JOAN A	WINQUIST CR	1169	05D		08A	36.000	A
62354C	GAGNE GARY S & ERNEST R	HOSKIN BR	92.B.093.1.1	31C	01	08A	3.000	B
62414C	MAYER DAVID P	HOWARD CR	93.L.057	12C	01	08A	1.330	B
62416C	MCLEOD GREGORY & MARGARET	ADLER CR	93.L.057	12C	01	08A	.670	B
62429C	GRAWEHR WALTER (DUCKS)	FIFTYNINE CR	335	02B	01	08A	66.500	B
62789C	BUTCHART GARDENS LTD	BUTCHART CR	8793B	31B	01	08A	3.500	B
62790C	BUTCHART GARDENS LTD	TOD CR	8792A-1	31B	01	08A	22.500	B
62798F	CLIFF RONALD L & NANCY M	BARNES CR	303	02A	01	08A	92.500	B
62801C	RAFTER S R RANCH LTD	BARNES CR	303	02A	01	08A	33.000	B
62825C	YOUNG WALTON R & GEORGE R	PATERSON CR	8596	30F	01	08A	1.250	B
62826C	YOUNG WALTON R & GEORGE R	PATERSON CR	8596	30F	01	08A	1.250	B
62848C	WERNER ALBERT B	E DUTCHMAN CR	8433	30	01	08A	2.000	B
62870C	LEWIS OSRIC M	FOURTH OF JULY CR	1511	07A	01	08A	45.000	B
62880C	GRAY ALAN & JEAN	MCCUDDY CR	1511	07A		08A	5.000	B
62882C	MANN HENRY Y	MCCUDDY CR	1507	07A		08A	45.000	B
62896C	MANN HENRY Y	BALDY CR	1507	07A		08A	19.800	B
62961C	WATER MANAGEMENT BRANCH	NICOLA R	92.1.017.4.1	21A	01	08A	43800.000	B
62975C	CARTER DON & CLAIRE	LALUWISSIN CR	344	02C	01	08A	50.000	B
62977C	REUTER WINFRIED G & ASTRI	LALUWISSIN CR	344	02C	01	08A	50.000	B
62979C	FENNELL JAMES A & MARGARE	LALUWISSIN CR	344	02C	01	08A	50.000	B
62981C	REUTER WINIFRIED G & ASTR	LALUWISSIN CR	344	02C	01	08A	97.330	B
62983C	FENNELL JAMES A & MARGARE	LALUWISSIN CR	344	02C	01	08A	270.670	B
63019C	LORNEX MINING CORPORATION	THOMPSON R	301	02A	01	08A	1100.000	B
63061C	DEWDNEY-ALOUETTE REGIONAL	DICKSON CR	5850	20H	01	08A	4600.000	B
63107C	MARCER ROBERT C	ENGLISHMAN CR	82.G.014	06C		08A	187.000	B
63219C	HOOD POINT IMPROVEMENT DI	HONEYMOON CR	92.G.044.1.1	29C	01	08A	4.980	B
63221C	HOOD POINT IMPROVEMENT DI	HONEYMOON LK	92.G.044.1.1	29C	01	08A	2.822	B
63287C	DUCKS UNLIMITED (CANADA)	EXETER CR	92.P.065	05B		08A	206.000	B
63346C	CHRISMATE ENTERPRISES LTD	E BARLOW CR	93.G.009	26B		08A	10.000	B
63347C	HEPP GEORGINA	E BARLOW CR	93.G.009	26B		08A	5.000	B
63373C	WEENK BARRY	BIG CAMP CR & BARRY CR	93.B.050	05D		08A	80.000	B
63520C	ARMSTRONG CITY OF	S FORTUNE & BIG SWAMP	8521	30G		08A	607.000	B
63617C	MINNOREVA HOLDINGS CORPOR	NIELS BR	3708	13D		08A	7.000	B
63860C	MARCER ROBERT C	BEAR CR	82.G.014	06C		08A	43.000	B
63912C	SHORTT LAURENCE D	SHORTT SPR	8793C	31B		08A	1.750	B

DAMS

Lic.#	Owner	Source	Location	Precinct#PRP	PRP	QTY	Units
63925C	SINCLAIR JAMES & PHYLLIS	SINCLAIR SWAMP	92-B-083-2-3	31C	08A	.250	B
63928C	HIEBERT BRIAN & JEANETTE	AUTUMN BR	4855	17B	08A	1.000	B
63947C	SISTERS OF SAINT ANN	ZENOBIA SWAMP	8707B	31A	08A	35.000	B
63966C	LUBY CHARLES & SANDRA	FESTUS BR	92.B.032.3.2	31B	08A	.100	B
63971C	HEYD MARGARET	MOFFAT CR	8709A	31A	08A	3.000	B
63977C	HEYD JOHN	MOFFAT CR	8709A	31A	08A	7.000	B
63985C	ELLISON BRIAN D	RIVERSIDE SWAMP	8700A	31A	08A	2.000	B
63994C	ELLISON BARRY	ROSEDALE SWAMP	8700A	31A	08A	5.000	B
64001C	LARSON GILBERT & VIOLET	WEISNER BR	92.B.093.1.1	31C	08A	1.200	B
64015C	HEATH WILLIAM A & VALERIE	VALERIE CR	8707B	31A	08A	150.000	B
64019C	KRIEGER RICHARD & MARGARE	MADRONA CR	92.B.083.4.1	31C	08A	2.500	B
64024C	EDWARDS WALTER LARRY	LEWIS SPR	92.F.030.3.1	17A	08A	.500	B
64039C	LUBY CHARLES & SANDRA	GOODCHILD SPR	92.B.032.3.2	31A	08A	.250	B
64047C	MARINELAND CHARTERS LTD	DOMESTIC CR	92L/NE	17D	08A	.800	B
64056C	QUADRA SMOLT FARMS LTD	PYE CR	92K/5	17B	08A	3660.000	B
64063C	FRITZSCHE VOLKHARD & MONI	WHITELEY CR	4811	17A	08A	60.000	B
64073C	ZOLTAY ANDREW E & SHEILA	BULLOCKS CR	92.B.083.4.1	31C	08A	3.000	B
64074C	SPIRIT SPRINGS ENTERPRISE	ARDWELL CR	87900	31B	08A	4.000	B
64078C	HERON AUDREY A	BIRKENHEAD SWAMP	92.F.056.4.4	17C	08A	4.000	B
64084C	WALLER GORDON & DIANE	WALLER SPRS	8793C	31B	08A	1.000	B
64087C	CARTER DAVID	JELNICK POND	92.B.033.3.3	31B	08A	.250	B
64108C	PRINCE RUPERT CITY OF	SHAWATLAN LK & R	6704	25C	08A	8000.000	B
64113C	AQUASOURCE LTD	FREIL CR	92GNW	29D	08A	1125.000	B
64115C	FISHERIES BRANCH	PEACHLAND CR	8497	30D	08A	2500.000	B
64116C	BRENDA MINES LTD	PEACHLAND CR	8497	30D	08A	3300.000	B
64157C	E & M CATTLE CO LTD	RICHTER CR	6937	23B	08A	150.000	B
64167C	BEY JOHN & RUBY	SUMMERS CR	92H/16-W(D)	23C	08A	186.000	B
64171C	LE DUC DOUGLAS ESTATE OF	ROUND CR	8592	30F	08A	62.500	B
64173C	LE DUC DOUGLAS ESTATE OF	ROUND CR	8592	30F	08A	62.500	B
64186C	PROCTOR LAKE W U C	PROCTOR LK	82L/6-E(G)	30F	08A	220.000	B
64187C	CROWN FOREST INDUSTRIES L	PROCTOR LK	82L/6-E(G)	30F	08A	20.000	B
64239C	MURPHY FERGUS D	REED CR & DOWDING SPR	1503C	07A	08A	4.000	B
64255C	ASK CLIFFORD C & EVELYN A	BALDY CR	1507	07A	08A	30.000	B
64256C	GOERTZEN ABRAM L	BALDY CR	1507	07A	08A	9.000	B
64303C	BLACKDOME EXPLORATION MIN	LOU CR	920/SE(7A)	05C	08A	5.100	B
64346C	BEMARDO ENTERPRISES LTD	CHUCK CR	92G.018.4.3	20J	08A	2.000	B
64440C	HOOD POINT IMPROVEMENT DI	HONEYMOON CR	92.G.044.1.1	29C	08A	7.138	B
64538C	WICKI KARL	NATTA BR	93.G.075	24E	08A	40.000	B
64539C	WICKI KARL	NATHAN CR	93.G.075	24E	08A	5.000	B
64558C	MEILGAARD MELVIN	HOGSBACK CR	93.G.081	24E	08A	45.000	B
64582C	MCKEE GAYLON REED & EVA D	MURRAY CR	93.K.010	24E	08A	240.000	A
64604C	LEPOIDEVIN ESTHER & KEITH	MUDHOLE CR	93.K.006	24E	08A	4.000	B
64716C	FISHERIES & OCEANS DEPART	NICOLA R	92.1.017.4.1	21A	08A	10000.000	B
64717C	WATER MANAGEMENT BRANCH	NICOLA R	92.1.017.4.1	21A	08A	31634.000	B
64727C	OCEAN FALLS IMPROVEMENT D	LINK R	93.D.032	05F	08A	67.000	B
64729C	LANDS DIVISION (OCEAN FAL	LINK R	93.D.032	05F	08A	57364.700	B
64906C	JACKSON EDWARD & CHARLOTT	BROCK CR	3711E	13D	08A	1.000	B
64907C	THOMPSON RONALD R	PORTER CR	92.0.099	05C	08A	97.000	B
64908C	ERHORN WALTER	PORTER CR	92.0.099	05C	08A	20.000	B
64909C	MILLER STEPHANIE D	PORTER CR	92.0.099	05C	08A	17.000	B
64910C	CATRE INDUSTRIES LTD	PORTER CR	92.0.099	05C	08A	36.000	B
64911C	GRAVES ARTHUR G & DONNA E	PORTER CR	92.0.099	05C	08A	76.000	B

Lic.#	Owner	Source	Location	Precinct#PRP	PRP	QTY	Units
64912C	GRAVES ARTHUR G & DONNA E	PORTER CR	92.0.099	05C	08A	36.000	B
64913C	MILLER STEPHANIE D	PORTER CR	92.0.099	05C	08A	18.000	B
64999C	HILL GRAHAM F & ANITA M	PETERSON CR	& 92P/SE(1F)	13B	08A	.670	B
65177C	NIKKELS WILLIAM B	PILGRIM CR	92.B.033.3.4	31B	08A	2.200	B
65178C	METCHOSIN POULTRY LTD	PILGRIM CR	92.B.033.3.4	31B	08A	1.400	B
65465C	WILSON GILBERT E & MARY M	HIGHLAND CR	93.M.042	12C	08A	25.000	B
65481C	INDIAN AFFAIRS	STUMAUN CR	103.J.059	25C	08A	134.000	B
65508C	VOSS LAVERNA	DOBSON CR	93.M.052	12C	08A	1.000	B
65525C	ALLEN MARTIN P & DOROTHY	GOODMAN CR	93.M.052	12C	08A	2.000	B
65701C	VANDERWEKKEN J WILLEM	BULLOCKS CR	92.B.083.4.1	31C	08A	.350	B
65717C	IRELAND DANNY B	HARROP POND	8793B	31B	08A	4.000	B
65738C	MABER EDWARD D ESTATE OF	HARROP POND	8793B	31B	08A	8.000	B
65739C	LASSAM DAVID & GRETA	LANTERN BR	92.G.011.2.2	17A	08A	2.000	B
65742C	MACKAY IKE D	IKE BR	92G/4	17A	08A	5.000	B
65743C	LIMBRANT HOLSTEINS FARM L	LIMBRANT SPR	8701F	31A	08A	25.000	B
65746C	HASLAM JOHN A	PATTERSON CR	92.G.001.4.1	17A	08A	1.100	B
65762C	GAUVIN MARIO	GAUVIN BR	8750E	31C	08A	.500	B
65767C	WALLIS DAVID C & KATHERIN	AUSTIN CR	8790D	31B	08A	.100	B
65769C	WILSON JUDITH ANNE	VALENS BR	92.F.047.3.3	17C	08A	.040	B
65773C	MACMILLAN BLOEDEL LTD-PRO	FULLER LK	8718D	31A	08A	75.000	B
65774C	MOUNT BRENTON GOLF COURSE	FULLER LK	8718D	31A	08A	25.000	B
65777C	NIKKELS WILLIAM B	PILGRIM CR	92.B.033.3.4	31B	08A	6.400	B
65779C	ZYCHLINSKI JOHANNES & IRM	CONNELL CR	4810	17A	08A	2.170	B
65787C	MUSSELL PATRICK G	MADRONA CR	92.B.083.4.1	31C	08A	.500	B
65789C	BROOKS THELMA L	SANDHILL CR	8793C	31B	08A	11.000	B
65790C	SENNETTE LEO & FLORENCE	DOT BR	8703B	31A	08A	.020	B
65795C	HASLAM JOHN A	HILDER BR	92.G.001.4.1	17A	08A	1.000	B
65893C	WILSON WILLIAM F & NANCY	BEATON CR	3753	13F	08A	.820	B
65894C	GLANVILLE KENNETH R	BEATON CR	3753	13F	08A	1.000	B
65895C	FERGUSON DENISE C	BEATON CR	3753	13F	08A	1.420	B
65897C	LEGGETT TIM & JANICE	BEATON CR	3753	13F	08A	5.040	B
65898C	KLEIN ALLEN J & SANDRA J	BEATON CR	3753	13F	08A	5.680	B
66123C	E & M CATTLE CO LTD	TESTALINDEN CR	1502 & 6936	23B	08A	45.000	B
66124C	E & M CATTLE CO LTD	TESTALINDEN CR	1502 & 6936	23B	08A	75.000	B
66155C	TILBERT VERNON D	BURNYEAT CR	82L/7-W(E)	30G	08A	5.000	B
66203C	FEDOR JOHN A	N NINE MILE CR	1508	07A	08A	50.000	B
66242C	MASCOT GOLD MINES LIMITED	CAHILL CR	6903	23A	08A	36.000	B
66314C	LUTZ JOSEF & ANGELIKA	ELKE'S BR	3128	11E	08A	20.000	B
66329C	LEIR JAMES H	SHAFORD CR & MARRON R	1552	07B	08A	26.000	B
66375C	MASCOT GOLD MINES LIMITED	MASCOT DITCH	6903	23A	08A	22.000	B
66635C	FISHERIES & OCEANS CANADA	MCLOUGHLIN CR	103A/SE(1-G)	05F	08A	180.000	B
66649C	GRIMSHIRE DONALD A & MILL	STRETTON & TAYLOR CRS	93.B.068	26A	08A	36.000	B
66670C	WELLS JOHN C	EVERGREEN CR	92.P.065	05B	08A	64.000	B
66728C	REDL THOMAS E & BARRIE M	HAWKS CR & O'KEEFE LK	1161	05D	08A	452.700	B
66731C	WILLIAMS RON	MOREHEAD CR	93.A.062	05D	08A	70.000	B
66747C	WILLIAMS RON	WARREN CR & LK	93.A.061	05D	08A	90.000	B
66764C	ARMSTRONG KENNETH & ELIZA	HAWKS CR	1161	05D	08A	91.300	B
66877C	DUCKS UNLIMITED (CANADA)(	QUILCHENA CR	6168	21D	08A	257.000	B
67946C	LEIR JAMES	BROKEN CR	82E/5W(E)	23A	08A	75.400	B
67947C	WHITBURN HOLDINGS LTD	BROKEN CR	82E/5W(E)	23A	08A	30.200	B
67948C	VALSONIS JAMES & ESTER	BROKEN CR	82E/5W(E)	23A	08A	8.120	B
67949C	LEIR JAMES	BROKEN CR	82E/5W(E)	23A	08A	11.680	B

Lic.#	Owner	Source	Location	Precinct#PRP	PRP	QTY	Units
67950C	LEIR JAMES	BROKEN CR	82E/5W(E)	23A	08A	47.800	B
67951C	LEIR JAMES	BROKEN CR	82E/5W(E)	23A	08A	100.800	B
67952C	LEIR JAMES	BROKEN CR	82E/5W(E)	23A	08A	2.880	B
67953C	LEIR JAMES	BROKEN CR	82E/5W(E)	23A	08A	54.560	B
67954C	LEIR JAMES	BROKEN CR	82E/5W(E)	23A	08A	58.360	B
67955C	LEIR JAMES	BROKEN CR	82E/5W(E)	23A	08A	20.760	B
67956C	LEIR JAMES	BROKEN CR	82E/5W(E)	23A	08A	31.600	B
67957C	LEIR JAMES	BROKEN CR	82E/5W(E)	23A	08A	54.040	B
67958C	LEIR JAMES	BROKEN CR	82E/5W(E)	23A	08A	3.800	B
67960F	VALSONIS JAMES & ESTER	SHATFORD CR & MARRON R	1552	07B	08A	7.330	B
67962F	LEIR JAMES H	SHATFORD CR & MARRON R	1552	07B	08A	2.100	B
67964F	LEIR JAMES H	SHATFORD CR & MARRON R	1552	07B	08A	28.550	B
67966F	LEIR JAMES H	SHATFORD CR & MARRON R	1552	07B	08A	17.810	B
67968F	LEIR JAMES H	SHATFORD CR & MARRON R	1552	07B	08A	3.930	B
67970F	LEIR JAMES H	SHATFORD CR & MARRON R	1552	07B	08A	1.830	B
67972F	LEIR JAMES H	SHATFORD CR & MARRON R	1552	07B	08A	110.000	B
67974F	LEIR JAMES H	SHATFORD CR & MARRON R	1552	07B	08A	275.780	B
67976F	LEIR JAMES H	SHATFORD CR & MARRON R	1552	07B	08A	114.970	B
67978F	LEIR JAMES H	SHATFORD CR & MARRON R	1552	07B	08A	214.700	B
67981C	FENNELL JAMES A & MARGARE	N LALUWISSIN CR	344	02C	08A	220.650	B
67982C	REUTER WINFRIED & ASTRID	N LALUWISSIN CR	344	02C	08A	79.350	B
67990C	WESTBANK IRRIGATION DISTR	WHITE ROCKS & N LAMBLY	82L/4W	30D	08A	2000.000	B
67991C	WESTBANK IRRIGATION DISTR	LAMBLY,N POWERS,PADDLE	8499 & 8500	30D	08A	270.000	B
68029C	MCCALLISTER MONTE & GARY	COPLAND CR	93.F.091	12A	08A	3.000	B
68030C	OCEAN FISHERIES LTD	MCLENNAN CR	6701	25C	08A	78.000	B
68031C	REEDY BLYNN E & SHIRLEY A	COPLAND CR	93.F.091	12A	08A	7.000	B
68032C	OWENS MOYLEN B	COPLAND CR	93.F.091	12A	08A	2.000	B
68042C	REEDY BLYNN E & SHIRLEY A	HAWLEY CR	93.F.091	12A	08A	1.000	B
68241C	HAYWARD GARY P	SYLVIA CR	92.G.001.4.2	17A	08A	.870	B

DAMS WITH ADDITIONAL INFORMATION

Lic.No.	Name/Owner	Source	Ht	Length	Type	Outlet	Spillway	Units	PRP
			16	146	E		U	M	REC
			19	55	R	P	U	M	HYD
1919A	B C HYDRO	PUNTLEDGE RIVER	11	91	BG	L	U	M	HYD
1919B	B C HYDRO	PUNTLEDGE RIVER	12	190	BG	P	U	M	HYD
3652	B C HYDRO & POWER AUTH	STAVE R	26	125	G	P		M	HYD
3652	B C HYDRO & POWER AUTH	STAVE R	22	195	G		C	M	HYD
3726		FURRY CREEK	17	91	G	P	U	M	HYD
4171	B C HYDRO	BULL RIVER	27	134	G	P	U	M	HYD
4450F	ALEGRE GASTON	HAHA CR	5	45	E	400	U	M	
4737F	CHRISTIAN JACK	CACHE CR	4	105	E	375	U	M	
4739F	CHRISTIAN JACK	BATTLE CR	3	15	E	375	U	M	
5181A	ANYOX	ANYOX CREEK	42	208	A	L	U	M	IND
5181B	ANYOX	BIG FALL CREEK	35	30	LOG	P	U	M	HYD
5644	B C HYDRO	ELK R	16	95	G	P	U	M	HYD
5734C	PENTICTON CITY OF	PENTICTON CR	9	251	E	L	U	M	IRR
6290F	WATT JAMES D	LEONIE CR	2	16	E	450	U	M	
6409F	DOUGLAS LAKE CATTLE CO	RUSH CR	19	418	ER		U	M	HYD
6644	B C HYDRO	WOODWORTH L	13	34	G	P	U	M	HYD
6690F	R K PROPERTIES LTD	VENABLES CR	5	91	E	375	U	M	
6940F	CHAI-NA-TA GINSENG PRODUC	BOTANIE CR	7	72	E	500	U	M	
7148F	B C HYDRO & POWER AUTH	ALOUETTE LK	23	314	E	L	C	M	HYD
7252F	SCHMIDT EUGENE	BRIGADE CR	2	40	E	300	U	M	
7437F	BAKKER TED C & MAUREEN A	CHARTRAND CR	4	42	E	600	U	M	
8432A	B C HYDRO & POWER AUTH	COQUITLAM LK	31	290	E	L	U	M	HYD
8432B	B C HYDRO & POWER AUTH	COQUITLAM LK	17	110	G	P	U	M	HYD
8690F	GREATER VANCOUVER WATER D	SEYMOUR R	30	457	BE	P	U	M	DOM
9076F	JOHNSTON ALEXANDER M	GILL CR	2	12	L.R.E	450	U	M	
9483F	SURF INLET POWER CO LTD	COUGAR LK	18	126	B	P	U	M	HYD
9483	SURF INLET POWER CO LTD	COUGAR LK	18	125	C	1.8P	U	M	ABA
9540F	MACMILLAN BLOEDEL & POWEL	POWELL R	17	237	G	P	C	M	HYD
9597F	SEIBERT KARL W/R M	PABLO CR	5	30	E	300	C	M	
10187C	B C HYDRO & POWER AUTH	BIG FALLS CR	12	158	G	P	C	M	HYD
10229F	MOON MELVILLE C S ESTATE	MELDRUM CR	2	75	E	450		M	
10403F	B C BUILDINGS CORPORATION	TRANQUILLE R	8	107	E	L	U	M	IRR
11022F	GENSTAR CEMENT LTD	OLIPHANT LK	7	300	C		U	M	
11082F	FROLEK RANCH & SAWMILLS L	ANDERSON CR	3	18	E	300	U	M	
11360	WKPL - LOWER BONNINGTON	KOOTENAY R	19	223	G	P	C	M	HYD
11745	HEISLER.G	JACKPINE L	5	108	E	600	U	M	
11973F	ALSAGER HOLDINGS LTD	GASPARD CR ET AL	9	120	E	900	U	M	
12183F	BURDETT ROBERT FRANCIS D	BUTEDALE LK	3	9	C	0.9P		M	HYD
12505C	B C HYDRO & POWER AUTH	BRIDGE R	61	365	ER	P	C	M	HYD
12698	WKPL-UPPER BONNINGTON	KOOTENAY R	15	341	G	P	U	M	HYD
12704	WKPL CORRA LINN	KOOTENAY R	21	519	G	P	C	M	HYD
12706	WKPL - SOUTH SLOCAN	KOOTENAY R	21	621	G	P	U	M	HYD
12750A	B C HYDRO & POWER AUTH	JORDAN R	17	311	E	L	U	M	HYD
12750B	B C HYDRO & POWER AUTH	JORDAN R	27	138	G	P	U	M	HYD
12750C	B C HYDRO & POWER AUTH	JORDAN R	39	271	G	L	U	M	HYD
13341F	ROSEN PHIL & DOROTHY	PETERSON CR	3	48	E	500	C	M	
13972	"BARKERVILLE RECREATION"	GROUNDHOG L	10	100	E		U	M	REC
14089	COMMINCO - BRILLIANT	KOOTENAY R	39	190	G	P	C	M	HYD
14556		MCLEESE CR	4	18	E	300	U	M	
14567A	B C HYDRO & POWER AUTH	SUGAR LK	30	40	E	P	U	M	HYD
14567B	B C HYDRO & POWER AUTH	SUGAR LK	13	98	E	L	U	M	HYD
14568C	SUMMERLAND DISTRICT OF	TROUT CR	21	49	E	L	U	M	IRR
14640F	MACMILLAN BLOEDEL & POWEL	LOIS R	59	207	A	P	C	M	HYD
14833C	MICHELL NOEL H	WALLOPER CR	2	63	E	600	U	M	
15217C	KAMLOOPS CITY OF	JAMIESON CR	12	119	E	L	U	M	IRR
15296C	GREATER VANCOUVER WATER D	CAPILANO R	92	195	G	L	C	M	DOM
16414A	SUMMERLAND IRRIGATION	TROUT CREEK	11	117	E	L	U	M	IRR
16414B	SUMMERLAND IRRIGATION	TROUT CREEK	15	160	A	L	U	M	IRR

DAMS WITH ADDITIONAL INFORMATION

Lic.No.	Name/Owner	Source	Ht	Length	Type	Outlet	Spillway	Units	PRP
16414C	SUMMERLAND IRRIGATION	TROUT CREEK	8	244	E	L	U	M	IRR
16414D	SUMMERLAND IRRIGATION	TROUT CREEK	8		E	L	U	M	IRR
16414E	SUMMERLAND IRRIGATION	TROUT CREEK	8		E	L	U	M	IRR
16416C	SUMMERLAND DISTRICT OF	ENEAS CR & FINLAY CR	14	91	E	L	U	M	IRR
16854	WKPL - GOAT	GOAT R	27	53	A		U	M	
17091C	ELLISON IRRIGATION DISTRI	KELOWNA CR	12	236	E	L	U	M	IRR
17264	WESTAR PULP	WOODFIBRE CR	17	160	B	P	C	M	IND
17295A	B C HYDRO & POWER AUTH	CAMPBELL LK	3	850	GE	P	C	M	HYD
17295B	B C HYDRO & POWER AUTH	CAMPBELL LK	37	94	G	P	C	M	HYD
17615	B C HYDRO	STAVE R	59	125	G	P	C	M	HYD
17636	"ROSE VALLEY IRRIGATION"	LAMBLY CR	30	85	E	L	U	M	IRR
17736	"NARAMATA"	ROBINSON CR	10	244	E	L	U	M	IRR
17774	COMINCO - WANETA	PEND D'OREILLE CR	76	290	G	P	C	M	HYD
17842A	VERNON IRRIGATION DISTRIC	ABERDEEN LK & HADDO LK	10	472	E	L	U	M	
17842B	VERNON IRRIGATION DISTRIC	ABERDEEN LK & HADDO LK	10	302	E	L	U	M	
18074C	B C TIMBER LTD	TAYLOR LK & PRUDHOMME LK			C		C	M	
18074	B C TIMBER LTD	TAYLOR LK & PRUDHOMME LK			C		C	M	
18074	B C TIMBER LTD	TAYLOR LK & PRUDHOMME LK			G	P	C	M	
18252F	SPELLER DANIEL & SANDRA &	MONTE CR & MONTE LK	3	8	E	1500	U	M	
18526	B C HYDRO	WHATSHAN L	12	174	GE	P	U	M	HYD
18826	"NANAIMO AREA(ABANDONDED)"	HOGAN L	11	18	G	P	U	M	HYD
19847A	ALCAN	NECHAKO R	26	549	E			M	HYD
19847B	ALCAN	NECHAKO R	12	213	E		C	M	HYD
19847C	ALCAN	NECHAKO R	23	396	E			M	HYD
19847D	ALCAN	NECHAKO R	99	549	R			M	HYD
19847E	ALCAN	NECHAKO R	8	114	E			M	HYD
19847F	ALCAN	NECHAKO R	18	198	E			M	HYD
20576	HUTCHINSON SCOTT	SPRING BR	3	40	E	300	U	M	
20969F	SCHILLING BRUNO F/ULRICH	LINDQUIST CR & SMITH LK	7	20	E	1200	U	M	
21418	RIBCO LEASING	RAGING R	16	82	G	P	U	M	HYD
21621F	RIBCO LEASING LTD	RAGING R	15	90	C	450	U	M	
21624F	GREATER VICTORIA WATER DI	SOOKE R	15	305	E	P	U	M	DOM
21631	GREATER VICTORIA WATER DI	GOLDSTREAM R & WAUGH CR	10	274	E	L	U	M	DOM
21631A	GREATER VICTORIA WATER DI	GOLDSTREAM R & WAUGH CR	12	140	E	P	U	M	DOM
21631B	GREATER VICTORIA WATER DI	GOLDSTREAM R & WAUGH CR	13	206	E	L	U	M	DOM
21631C	GREATER VICTORIA WATER DI	GOLDSTREAM R & WAUGH CR	15	95	E	P	U	M	DOM
21631D	GREATER VICTORIA WATER DI	GOLDSTREAM R & WAUGH CR	12	46	E	L	U	M	DOM
21631E	GREATER VICTORIA WATER DI	GOLDSTREAM R & WAUGH CR	9	44	E	L	U	M	DOM
21645	B C HYDRO	SPILLIMACHEEN R	9	41	G	P	U	M	HYD
21712	B C HYDRO	SETON CR	11	131	G	P	C	M	HYD
22143	"PORT MELLON INDUST."	RAINY R	29	91	R	L	U	M	IND
22143	"PORT MELLON INDUST."	RAINY R	14	69	G	P	U	M	IND
22174C	LOWREY IAN A	TIMOTHY CR			E			M	ABA
22273C	GREATER NANAIMO WATER DIS	S NANAIMO R	28	62	A	P	U	M	DOM
22285C	B C HYDRO & POWER AUTH	CHEAKAMUS R ETC.	29	683	EG	P	C	M	HYD
22393C	GILLESPIE ROSS S	PROUTON CR	3	36	EL	350	U	M	
22457C	MULVAHILL RANDOLPH F	MAXWELL CR							
22581C	B C HYDRO & POWER AUTH	CAMPBELL R ETC	53	510	E	P	C	M	HYD
22751	"CHEMAINUS DOMESTIC"	HOLYOAK LK	10	120	E		U	M	DOM
23071	"KELOWNA IRRIG."	DELSO CR	12	304	E	L	U	M	IRR
23085C	B C FOREST PRODUCTS LTD	COWICHAN R	1	70	C		U	M	
23169	B C HYDRO	QUINSAM R	12	61	G	F	U	M	HYD
23220C	B C HYDRO & POWER AUTH	ASH R	30	194	E	P	C	M	HYD
23552	B C HYDRO	BRIDGE R	87	1033	R	P	U	M	HYD
23754		PROVIDENCE CR							
23906C	B C HYDRO & POWER AUTH	CLOWHOM R	22	402	G	P	C	M	HYD
24500C	MULVAHILL WILLIAM W	ROSS CR							
24872	"WEST VAN DOMESTIC"	DICK CR	13	43	R	P	U	M	DOM
24895	"NANAIMO RECREATION"	MCGARRIGLE CR	13	94	E	L	U	M	REC
25247	B C HYDRO	CRANBERRY CR	12	386	E	P	U	M	HYD

DAMS WITH ADDITIONAL INFORMATION

Lic.No.	Name/Owner	Source	Ht	Length	Type	Outlet	Spillway	Units	PRP
26114	ENVIRONMENT CANADA	QUALICUM R	11	40	E	P	U	M	CON
26114	ENVIRONMENT CANADA	QUALICUM R	10	40	E			M	
26171		FORESTRY CR	12	32	G	P	U	M	CON
26328	COPPER BEACH EST.	PARK LANE L	12	154	B	L	U	M	HYD
26634	"PRINCE RUPERT INDUS"	RAINBOW L	14	293	R	L	U	M	IND
27066C	B C HYDRO & POWER AUTH	UPPER/LOWER ARROW LK ETC	59	869	EG	L	C	M	HYD
27067C	B C HYDRO & POWER AUTH	DUNCAN LK & R	41	792	E	L	C	M	HYD
27068C	B C HYDRO & POWER AUTH	COLUMBIA R & TRIBUTARIES 2	42	792	ER	P	C	M	HYD
27574		TWIN CR							
27652C	LE DUC DOUGLAS ESTATE OF	ROUND CR	2		E		U	M	
27722C	B C HYDRO & POWER AUTH	PEACE R & TRIB	1 83	1433	E	P	C	M	HYD
28643	B C HYDRO	S CRANBERRY CR	20	655	E	L	U	M	HYD
29197C	GLENMORE IRRIGATION DISTR	KELOWNA CR	15	116	E	L	U	M	IRR
29658	ANYOX	DIANE CR	18	279	GR	L	U	M	IND
29829C	ENVIRONMENT CANADA	WOLF LK	3	5	C		U	M	
30290C	RIDDELL DORIS M	SUPPLY CR	3	30	CE	450	U	M	
30328C	PENTICTON CITY OF	PENTICTON CR	35	683	E	L	U	M	IRR
30464C	GLEN MARGUERITE C	FIFTYSEVEN CR	1	15	R,E	350	C	M	
30819C	ENVIRONMENT CANADA	NADINA L	1	12	CE	L	U	M	
31324C	ENVIRONMENT CANADA	FULTON R							
31324	ENVIRONMENT CANADA	FULTON R	16	59	G	L	U	M	CON
31324	ENVIRONMENT CANADA	FULTON R	15	60	C	L	U	M	
31326C	ENVIRONMENT CANADA	PINKUT CR	2	75	C	L	U	M	
31518	"PEACHLAND MINE"	PEACHLAND CR	27	427	E	L	U	M	IND
31742	"KELSEY BAY DOMESTIC"	NEWCASTLE CR	16	36	A	P	U	M	DOM
33178C	VANDENBERG TAMME	VANDENBERG CR	6	126	E	200	U	M	
33405	"WESTBANK IRRIG."	BIT CR	6	84	E	L	U	M	IRR
33638C	PATENAUDE ELMER J	FIVE MILE CR	3	90	E	L	U	M	
33989C	HERDE KARL	MUENCH CR							
33993C	CURRIE IAN H	MCLEESE CR							
34093C	CORNWALL SONIA & HUGH & M	BORLAND CR	3	30	E	L		M	
34635C	SCHWEB HUBERT & STELLA M	NICKLEN LK	4	27	E	450	U	M	
34699	"WINFIELD IRRIGATION"	BULMAN CR	10	396	E	L	U	M	IRR
34701A	"O.K. CENTER IRRIGATION"	DUTEAU CR	13	183	E	L	U	M	IRR
34701B	"O.K. CENTER IRRIGATION"	DUTEAU CR	12	335	E		U	M	IRR
34875C	BOYES JEANETTE F MRS	CAMEL CR			E				
35899C	BENISCH JOSEPH & HILDEGAR	HART LK			E				
36375	"KELOWNA IRRIGATION"	MISSION CR	20	396	E	L	U	M	IRR
37633	B C HYDRO KOOTENAY CANAL	KOOTENAY R	40	267	R	P		M	HYD
37331C	FISH & WILDLIFE BRANCH	JEWEL LK	2	33	E	150	U	M	
37513C	DEKALB MINING CORPORATION	N INKIKUH CR	2.4	100	E		U	M	
38658C	GIBRALTAR MINES LIMITED	E CUISSON CR							IND
40181F	KAUFMAN ELWOOD A & MARGIE	MCLEESE CR	4	18	E	300	U	M	
40300C	DOMAN GRANT M	DISPUTED CR/DISPUTED LKS	2	31	E	300	U	M	
41113C	GREATER NANAIMO WATER DIS	JUMP CR & JUMP LK	28	488	E	L	U	M	DOM
41411C	BLACK MOUNTAIN IRRIGATION	MISSION CR	3	64	E	300	U	M	
41798C	LEIR JAMES H	SHATFORD CR & MARRON R	9	87	E	600	U	M	
41965C	CRANBROOK CITY OF	JOSEPH CR	29	488	E	L	U	M	IRR
42203	B C HYDRO	PEACE R	50	533	G	P	C	M	HYD
42264F	DE BOER JOHN & SHARON	BIG CR	2	120	E		U	M	CON
42962	B C HYDRO	PERD D'OREILLE	67	335	G	P	C	M	HYD
43166F	OCEAN FALLS CORPORATION	LINK R	23	209	G	P	U	M	IND
43294C	GREATER VICTORIA WATER DI	CHARTERS R	18	61	A	P	U	M	DOM
43569		MOORE L. WARD CR	10	30	E	L	U	M	IRR
44213C	CRAIN ALBERT G	CANNON CR	7	15	E	250	U	M	
45662C	ZEHNDER FRIEDRICH & VRENI	GOLDIE CR	5	205	EC	375	U	M	
46332C	WESTWICK FREDERICK H	BOTTLE CR							
47215	B C HYDRO	COLUMBIA R	1 75	1615	ES	P	C	M	HYD
47716C	ALBERNI MARINE FARM LTD	MAY CR	4	7	C	300	C	M	
47977	"MCCULLOCH IRRIS."	HYDRAULIC CR	10	327	E	L	U	M	IRR

DAMS WITH ADDITIONAL INFORMATION

Lic.No.	Name/Owner	Source	Ht	Length	Type	Outlet	Spillway	Units	PRP
48280C	SHOPSHIRE WILLIAM L & AST	MISSEZULA LK	2	8	C		U	M	
48572F	MACMILLAN BLOEDEL LTD	SADIE CR	23	222	R	P	U	M	IND
50044		DEADMAN CR	12	27	A	L		M	DOM
52451C	GREATER VICTORIA WATER DI	DECEPTION GULCH	21	450	E	L	U	M	DOM
52839C	INSKIP DOUGLAS V	RUSHTON CR	3	246	E	300	U	M	
53705C	HIGHMONT OPERATING CORPOR	GNAWED LK	5	277	E	650	U	M	
53841C	HONOUR DOUGLAS L & MARY K	STONEY CR	3	120	E		U	M	
54487C	REUTER WINFRIED & ASTRID	SKOONKA CR & KANE CR	3	7	E	300	U	M	
54569	"LADNER CREEK"	GALVEZ & FULLER CR							
54571C	FROMENT ALICE M	MCCUDDY CR	11	52	E	L	U	M	IRR
55144C	PINETTE & THERRIEN MILLS	BEEDY CR							
56010	DOBBIN LAKE (WESTBANK)	ALOCIN CR	13	17	E	L	U	M	IRR
58256	"GREENHILLS INDUSTRIAL"	GREENHILLS CR	14	600	E		U	M	IND
58971C	FISHERIES SERVICE	TOM BROWNE CR	1					M	PRO
59430F	FORT ST JOHN CITY OF	CHARLIE LK	4		E	L		M	
59677C	HENRICH BERTA	KEDDY CR	3	12	E		U	M	
59690	"NANAIMO RECREATION"	CHASE CR	25	60	E		U	M	REC
59691	"NANAIMO RECREATION"	CHASE CR	13	46	E		U	M	REC
60490C	CAPITAL REGIONAL DISTRICT	SHINGLE CR	10	121	ER	L	U	M	DOM
60668C	GIESBRECHT HAROLD P & NAN	BEAVERLEY CR	1				U	M	
60904C	WESTERN PULP INC	MARBLE R	5	30	R		U	M	
61137	LORNEX MINE	BETHSAIDA CR	21	396	E	L	U	M	IND
62207F	MANN HENRY Y	BALDY CR W FX/MCCUDDY CR	12	69	E	250	U	M	

Notes:	Symbols used
Type	Earth, Rock, Concrete, Gravity, Arch, Log, Buttress
Outlet	Penstock, Low Level, 300 (outlet diameter)
Spillway	Uncontrolled, Controlled
Units	Metric
Purpose	Hydroelectric, Industrial, Domestic, Recreation, Proposed, Abandoned, Conservation, Irrigation.
Name/Owner	Where "quotes" used there was no name given so an approximation related to location was used.
License Number	Where a series of licenses A, B, C, etc. appear, this represents several dams on one body of water. Where a single number appears, with or without C or F appended a single dam is represented. The C or F for conditional or final does not affect the status significantly.

11. COMPUTER OPERATING GUIDE

CONTENTS

Section	Title	Page
11.1	Introduction	11-2
11.2	Description of the Database	11-2
11.3	Getting Started	11-3
11.4	Using the Database	11-8
11.5	Data Output	11-27
11.6	Global (hard disc only)	11-28
11.7	Quitting the Database	11-29
Appendix 1	Error Codes	
Appendix 2	Database File Layouts	

List of Screen Displays

Screen No.	Description	Page
1	Display (initial)	11-8
2	Configure	11-10
3	File Selection (Part 1)	11-14
4	File Selection (Part 2)	11-14
5	Main Display	11-15
6	Sort Criteria	11-16
7	Sort Fields	11-16
8	Sort Direction	11-17
9	Display Viewing Window	11-18
10	Field Selection	11-19
11	Operating Systems Editing Window	11-20
12	Operating Systems Intake Details	11-23
13	Operating Systems Facilities Details	11-24
14	Prefeasibility Studies Editing Window	11-24
15	Prefeasibility Studies Main Index	11-25
16	'Hydro' Subsystem File	11-26

11.1 INTRODUCTION

This publication contains about 75,000 pieces of information grouped into 8 files and up to 30 categories. Sorting, retrieving and updating this data is made simpler by a computer operated database. The information will assist the measurement of the existing developed resource and help in the effective planning of future projects.

This guide is designed to teach the user the "hands-on" operation of the database. An elementary knowledge of computers is assumed, but the program is user friendly with preprogrammed subroutines to handle all foreseeable operations. The user must still be responsible for his own conclusions regarding the data, and would be expected to test any conclusions on project development through the normal preliminary and final design stages. Design assistance is available in the **"Small Hydro Power Handbook for British Columbia"** and **"Hydrologic Design Methodologies for Small-Scale Hydro at Ungauged Sites"**, both by EMR, and through several consulting engineering firms.

Note: If the user wants to get started without knowing background information, begin reading at Section 11.3.2.

11.2 DESCRIPTION OF THE DATABASE

The British Columbia small hydro database user interface was written in a mixture of C and assembler languages, and is designed to be used for file and record interaction with BTRIEVE, a file management utility which maintains records in B-Tree format.

The database user will typically operate the database only through the user interface portion of the database. All file and record operations are handled in a transparent fashion by the interface, freeing the user from the details of file management and allowing her/him to concentrate on the content of the database files.

This database is primarily menu driven. This makes its operations visually apparent, and allow the user to fully utilize the functions of the database with a minimum of effort. There is no need to learn a new 'language' or set of special command words to operate the database.

11.3 GETTING STARTED

Equipment

The database has been developed on an IBM-PC personal computer with floppy disk drives and a hard disk. It will operate on any IBM compatible computer with 2 disc drives and 256K of main memory. The volume of data means that a hard disk for storage is desirable, but it is not essential. The hard disk will allow the program to operate faster, but for infrequent users the value of this extra speed is minimal. The hard disc also permits the use of data compression on the information, which saves on floppy disks and hard disc storage space.

If the user does not require information from the Water Licence or Dams files a single floppy disc drive may be used.

Software

Unlike many programs, the small hydro database package is totally self contained. There is no requirement for a software licence. However the resulting program has only one use and cannot be used for general purposes.

The package consists of several flexible diskettes (floppy disks) which contain the master program and the stored data. Once the disks are loaded according to these instructions most other operations are explained within the program in addition to the following text.

11.3.1 Diskette Contents

The contents of the diskettes that you receive will vary depending upon several factors which include:

1) whether you are running on a floppy or hard disk system, and
2) which of the database files you have received

For completeness sake, we shall list the contents of ALL the files for the complete database system.

Program Files

i)	**HYDATAB.BAT:**	The batch file which loads the BTRIEVE record manager, and then the actual database program.
ii)	**BTRIEVE.EXE:**	The BTRIEVE record manager program. This program MUST be loaded into your systems memory before the database can access any of its files.
iii)	**EMR.EXE:**	The database program.
iv)	**DEFAULTS.CNF:**	Your configuration file which houses the data you see displayed in the database configure screen.
v)	**EMR.HLP** **EMRIDX.HLP:**	The files which are used for the prefeasibility **help** screens.

Data Files

1)	**OPSYS.BTR**	Operating Systems File
2)	**CSSYS.BTR**	Case Studies File
3)	**HYSYS.BTR**	Hydrological Information File
4)	**PFSYS.BTR**	Prefeasibility File
5)	**FSSYS.BTR**	Feasibility File
6)	**HISYS.BTR**	Historical Information File
7)	**DASYS.BTR**	Dams File
8)	**WLSYS.BTR**	Water Licences File

11.3.2 Starting the Floppy Based System

1) using the boot disk (MS-DOS) supplied with the computer in Drive A, switch on the hard disk (if available), computer, monitor and printer. Allow to warm up and initialize the date and time, if applicable.

Small Hydro Projects and Potential Sites in British Columbia

Addendum for Floppy Disks
(pages 11-5 to 11-12)

11.3.2 Floppy System (page 11-5)

2) The Configure option (section 11.4.1 page 11-10) should be checked and preferably set to A:, if it is not already. If a subdirectory is used, eg. \emr, then the setting would be A:\emr.

This change is made as shown on page 11-10, and further shown below.
At the first menu 1 (page 11-8),
type C, or move the cursor over Configure,press Return,
at the second menu 2 (page 11-10),
press Return, this will select PC, computer defaults,
a third menu will appear,
press Return, to select Drive/Directory.

To make changes,
press Esc, to clear the existing letters,
type A:, press Return, or
A:\emr if the emr subdirectory is used, and press Return,
press Esc, to return to the previous menu,
type U, or move the cursor over Update, press Return,
Q, to Quit,
E, to Exit from the system,
Y, Yes to get out of the system, and then
type HYDATAB to restart the system.

Problems may occur if you do not first Exit after Updating, and then restart.

N.B. Floppy disks will not oprate if they have WRITE PROTECT tabs. This will result in Errors 14, 47, or 3.

Operating with floppies requires only one drive, except for Water Licences and Dams.

When the system is first run, it may stop in Display or Insert-Edit and give Error 3. Pressing Esc three times will return the system back to menu 1 (page 11-8). Then select the desired option again and press Return. This initial problem then seems to disappear.

Loading the Program

For a floppy disk based system, the files will be distributed in the following fashion:

PROGRAM DISKETTE:

EMR.EXE
EMR.HLP
EMRIDX.HLP
HYDATAB.BAT
BTRIEVE.EXE
DEFAULTS.CNF

DATA DISKETTE:

OPSYS.BTR
HYSYS.BTR
HISYS.BTR
FSSYS.BTR
PFSYS.BTR
CSSYS.BTR

DAMS DISKETTE A:

DASYS.BTR - This diskette must ALWAYS be on-line in drive A when accessing the Dams database file.

DAMS DISKETTE B:

DASYSB.BTR - This diskette must ALWAYS be on-line in drive B when accessing the Dams database file.

WATER LICENCES DISKETTE A:

WLSYS.BTR - The same caution as for DAMS DISKETTE A applies here.

WATER LICENCES DISKETTE B:

WLSYSB.BTR - The same caution as for DAMS DISKETTE B applies here.

11.3.3 Starting the Hard Disc System

For a hard disk based system the Database files are shipped in a specially compressed format. In order for the Database system to be functional these files must be uncompressed onto your hard disk.

There are three diskettes supplied which contain the complete contents of the EMR Database System. These diskettes contain the following files:

DISKETTE # 1:

PROGRAM.ARC
DATA1.ARC
ARC.EXE

DISKETTE #2:

DATA2.ARC
ARC.EXE

DISKETTE #3:

DATA3.ARC
ARC.EXE

Continuing with the floppy disk based system insert program disk into drive A and type **HYDATAB.**

This will load the Btrieve file manager into memory, and then the database itself. After a short wait, the "log on" screen will present itself and you are now within the database. For hard disk users, copy the program disk files to the appropriate directory on your hard disk as described below. At this point proceed as for a floppy system. The program will prompt the user to insert the Water Licence or Dams diskettes if required.

Note: The user may advance to Section 11.4.2 to begin using the database without background information.

To install the database onto your hard disk, you will require approximately 2,000,000 bytes, (2 megabytes) of free space on your hard disk.

The following instructions will lead you through the process of installing the Database program and data files onto your hard disk.

1) Creating your EMR Sub-Directory (Optional)

The Database requires that you keep all the files grouped together in the same directory/sub-directory. For the purposes of this example, we will create and install the files to a sub-directory called EMR.

i) Turn on your computer, and progress through the start up procedures for your system. When you are finished initializing your computer you should see the DOS command prompt, C>, on your screen, assuming C is the location of the hard disc. Type in MD\EMR and press RETURN. This will create the EMR sub-directory.

ii) Type **CD\EMR**, to position yourself within the EMR sub-directory. To exit the subdirectory type **CD** RETURN.

iii) Place diskette #1 in drive **A**, type **A:**, and press RETURN. The DOS command prompt should now be displaying **A〉**.

iv) Type in **ARC X PROGRAM C:\EMR\*.*** and press RETURN. This will begin the procedure of installing the program files to the EMR sub-directory. All of the files being installed are necessary for the proper performance of the Database.

v) If you wish to install all of the data files to your hard disk, the following steps are required:

a) with diskette #1 in drive **A**, and with the DOS command prompt displaying **A〉**, type in **ARC X DATA1 C:\EMR\*.***
When all of the files have been installed, remove diskette #1 and insert diskette #2 in drive **A**.
At the prompt type,
ARC X DATA2 C:\EMR\*.*
When all of the files have been installed, remove diskette #2 and insert diskette #3 in drive **A**.
At the prompt type,
ARC X DATA3 C:\EMR\*.*

vi) The complete Database system is now installed and ready for your use. Change the DOS command prompt back to C by typing **C:** and pressing RETURN. This will reposition you within the EMR sub-directory. Typing **HYDATAB** and pressing RETURN will start the Database.

NOTE:

If you wish to selectively install the data files contained within DATA1.ARC, DATA2.ARC and DATA3.ARC, you may do so by typing in the following command line:

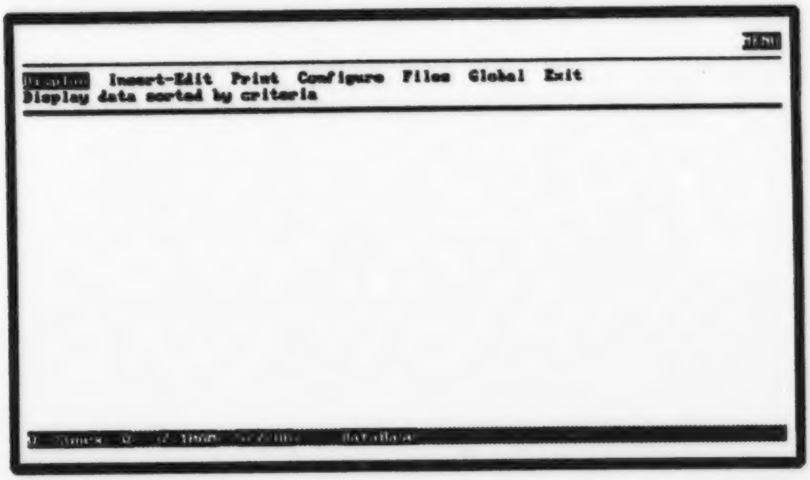
ARC X @@@@@@@@.ARC C:\EMR\******.*****
where @@@@@@@@ = either DATA1, DATA2 or DATA3, and ********.*** represents the name of the datafile you wish to install.

A screen listing of the contents of either DATA1.ARC, DATA2.ARC or DATA3.ARC may be obtained by typing **ARC L DATA1, ARC L DATA2** or **ARC L DATA3** from drive **A**.

11.4 USING THE DATABASE

General

After loading the program from the sub-directory using the command HYDATAB (Return) the first screen will appear as follows. The number beside the screen is for reference within this guide only.



Display data sorted by criteria

①

Most uses will involve going directly to a database operation, such as Display, Insert-Edit, Print or Global, as described beginning with Section 11.4.2. Select EXIT to finish work on the database.

The first time the program is used, the user will want to adapt the database to his own system, using the CONFIGURE option from the above menu, as described in Section 11.4.1.

ESCape can be used at any time to return to initial steps plus menus.

11.4.0 Record Management

Before configuring the database the user should note that all the work that will be performed within the database will relate to one of the 8 major groupings on files of data. The database gives you the opportunity to use its information in a variety of ways. Some of the important concepts behind the program are described below:

File: One of the major groupings, namely Operating Systems, Case Studies, Historical Projects, Feasibility Studies, Prefeasibility Studies, Hydrological Information, Water Licences and Dams.

Category: One of the "column headings", namely:

1. Reference Number
2. Plant Number
3. Water Licence Number
4. Number of Licences
5. Plant Name
6. Owner
7. Source (Stream Name)
8. Reservoir Name
9. Map Location
10. Latitude/Longitude
11. Priority (year/month/day)
12. Capacity
13. Precinct
14. Number of Purposes
15. Purpose
16. Quantity
17. Units
18. Description
19. Date
20. Head
22. Penstock Length, Diameter
23. Turbine Type
24. Hydrology
25. Cost (1000's)
26. Intake Type
27. Height
28. Facilities
29. Status
30. Information Source

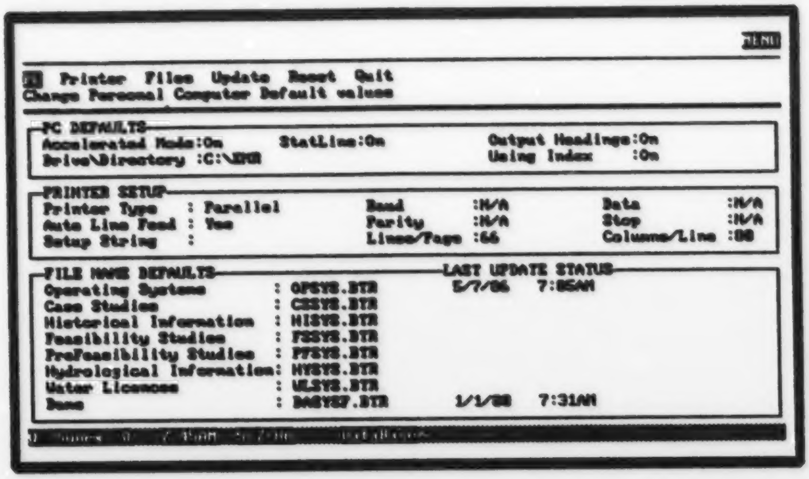
Categories 2 to 17 are generally available from water licence records. Category 1 is a reference used to link the database files and the mapping. Categories 18 to 30 are supplementary data.

The categories are explained in Section 2.2 and the representation of categories in each file is shown on Table 2.4.

Record: A record is a set of data categories in one file pertaining to one site. For example, the description of a small hydro operating system, which had a case study done, feasibility and prefeasibility studies, hydrology work and a small dam would show up as 6 separate records, one in each of the 6 applicable files. Most projects would not appear in so many forms. Appendix B lists the record structure for each of the eight files.

11.4.1 Configure Option

Configure option allows you to tailor the database to fit your equipment requirements, and also maintain necessary information which the database will require to function properly. The configure screen appears as follows:



```
                                                                    MENU
PC Printer Files Update Reset Quit
Change Personal Computer Default values

PC DEFAULTS
 Accelerated Mode:On      StatLine:On           Output Headings:On
 Drive\Directory :C:\EMR                        Using Index    :On

PRINTER SETUP
 Printer Type    : Parallel          Baud       :N/A        Data         :N/A
 Auto Line Feed  : Yes               Parity     :N/A        Stop         :N/A
 Setup String    :                   Lines/Page :66         Columns/Line :80

FILE NAME DEFAULTS                         LAST UPDATE STATUS
 Operating Systems        : OPSYS.BTR       5/7/86   7:05AM
 Case Studies             : CSSYS.BTR
 Historical Information   : HISYS.BTR
 Feasibility Studies      : FSSYS.BTR
 PreFeasibility Studies   : PFSYS.BTR
 Hydrological Information: HYSYS.BTR
 Water Licences           : WLSYS.BTR
 Base                     : BASYSF.BTR     1/1/80   7:31AM
```

②

COMMAND	USE
PC	Sets up the operating environment for the database.
DRIVE/DIREC:	Defines the disk drive and directory where the database will look for and store all files that you use. This default can be overridden during entry of a file name by pre-appending a drive specification to a file name. See also P11-4A for floppy version.
STATLINE	This will blank the status line on the screen if it is so desired.
OUTPUT HEADINGS	If this is set to ON, then, on all output to either a printer or a disk file, field headings will be used, and the data will be padded with blanks (spaces) to achieve proper alignment. This has the advantage of creating easily readable reports, however, it increases the length of each record. Turning headings OFF will output only data, with a single space separating fields.

ACCELERATED MODE	If set to ON, this allows the database to open files for accelerated access to records during updating and inserting of records. Allowing accelerated access will improve the speed of the database, however, once you have opened a file you cannot assume that ANY of your editing/inserting changes will be reflected in your file, until that file is closed. If disaster strikes while you are Editing/Inserting records, then you cannot be guaranteed of a clean data file. If you must open in accelerated mode, ensure you have an up-to-date back-up of your data files. Turning accelerated mode OFF will allow the automatic error checking features of the database to be in effect. This error checking is called PRE-IMAGING and PRE-IMAGING guards you and your data against accidental catastrophies. It accomplishes this by creating and maintaining a small temporary file that is used to keep track of any changes you may make while working one of the database files. This temporary file will have the SAME name as its associated data file, however the file extension, will be .PRE. Use of this small file is by BTRIEVE only. It is automatically deleted when its associated file is closed.
USE INDEX	Allows use of Prefeasibility files, special Indexing feature.
PRINTER SETUP	
TYPE	
PARALLEL	Selects Paralleled printer.
SERIAL	Select to use serial printer. The baud rate, parity, data bits, stop bits and communications port are all allowed to be selectable.

AUTOLF	If set to YES, the printer is in a mode where it automatically inserts a line feed after every Carriage Return.
SET UP	Enters a printer control string (eg. to compress print). You may send unprintable control characters in the following format: **nnn** where **nnn** is a 3 digit DECIMAL ASCII character code (eg. to send an ESC to the printer, enter: 027).
LINES PER PAGE	How many lines per page does your printer support (usually 66) - set default.
CHARACTERS PER LINE	Indicates the number of characters the printer will support (also the page width; normal 8½" paper is 80 characters) - set default.
FILE NAME DEFAULTS	This makes the file names for the 8 different file formats available. The database will use these default names when working with data files. Also included is a last update time and date feature, which tells when each file was last edited - eg. OPSYS.BTR, 5/7/86 7:05 AM etc.
UPDATE	This will update the file DEFAULTS.CNF within the current directory (see DRIVE/DIREC:). This will become a permanent change.

11.4.2 Display

Display allows you to load records, for viewing only, into the display window. Each project will be displayed as a single line across several screens. A full page display is available in **Insert-Edit** mode, Section 11.4.3, Screen 11. Records can be retrieved by selection of RANGE criteria, SORT criteria, or by a CONTAIN value.

- Selecting DISPLAY from the main menu presents you with your file options.

- After selecting the file you wish to work with, the database will attempt to open the associated file for that selection. If it is unable to find the file it will respond with an error message prompting you for the proper file as defined in the CONFIGURE menu under FILE NAMES.

- Once the file has been successfully opened you will be presented with menu selections of GO, SORT FIELDS, CONTAIN and QUIT.

- Selecting GO will cause the database to begin retrieving the records based on your criteria. **Note** that the default sort field is ALWAYS Reference Number in ASCENDING order.

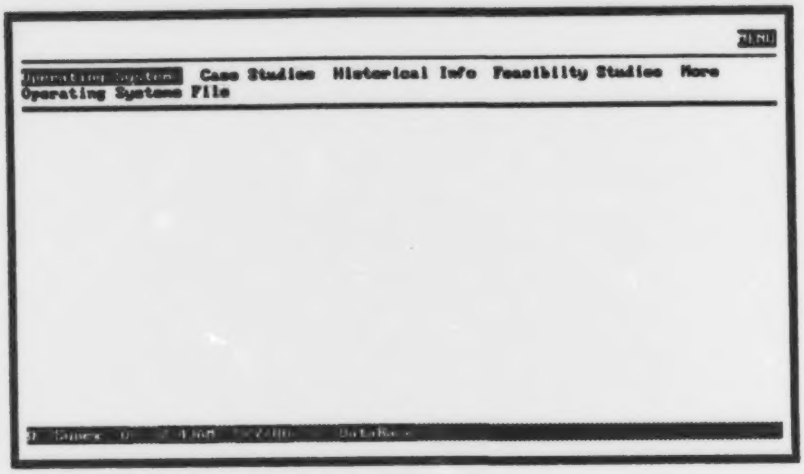
- Sort fields will allow you to select which field you wish to have the displayed data sorted by. After selecting a choice you will be prompted with a selection asking whether the data is to be sorted in ASCENDING or DESCENDING order.

- Selecting **CONTAIN** will prompt you for a value to be entered. The Database will take this value and search every record in the ACTIVE file for occurrences of it. After the search has been completed, all records which contained the value will be displayed in the Displaying Window.

Once the file has been loaded into memory, you will be given access to the data window.

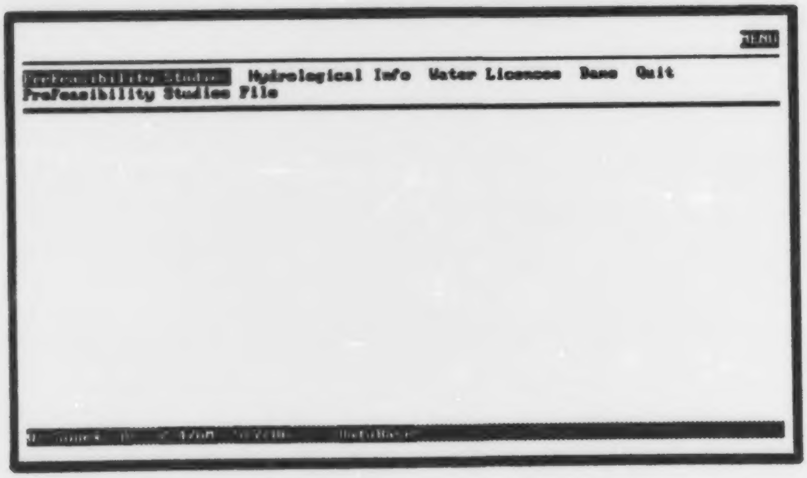
To demonstrate the display functions we will describe the retrieval of all records from **OPERATING SYSTEMS** which have a capacity of 1 to 10 kilowatts sorted in DESCENDING order.

STEP 1 Select **Display** from the main menu. This will present the **File Selection Menu.** The File Selection Menu is the point where you notify the DataBase as to which data file you wish to work with. There are eight files in total, four of which are displayed on the initial File Selection Menu. The initial menu appears like this:


MENU
Operating Systems
Case Studies
Historical Info
Feasibility Studies
More
Operating Systems File

③

Positioning the highlighted cursor over the file you wish to activate and pressing return will select the appropriate file. Selecting **More** from the menu will alow you access to the second half of the File Selection Menu, which will display the last four file choices. The second half of the menu appears like this:

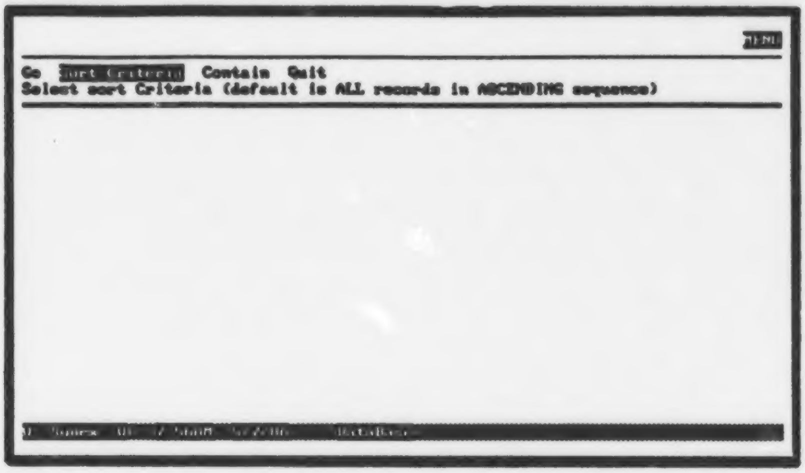

MENU
Prefeasibility Studies
Hydrological Info
Water Licences
Dams
Quit
Prefeasibility Studies File

④

Positioning the cursor over **Quit** and pressing return will take you back to the initial File Selection Menu. For the purposes of this demonstration we will select **Operating Systems** from the initial File Selection Menu.

STEP 2

After selecting the active file, you will be taken to the Main Display Menu. The screen menu will appear like this:



Select sort Criteria (default is ALL records in ASCENDING sequence)

⑤

The choices available to you at this point are:

1. **Go** - Start the retrieval of data records into the Display Window for viewing. If no Sort Criteria have been specified, the records will be retrieved according to the following default retrieval criteria.

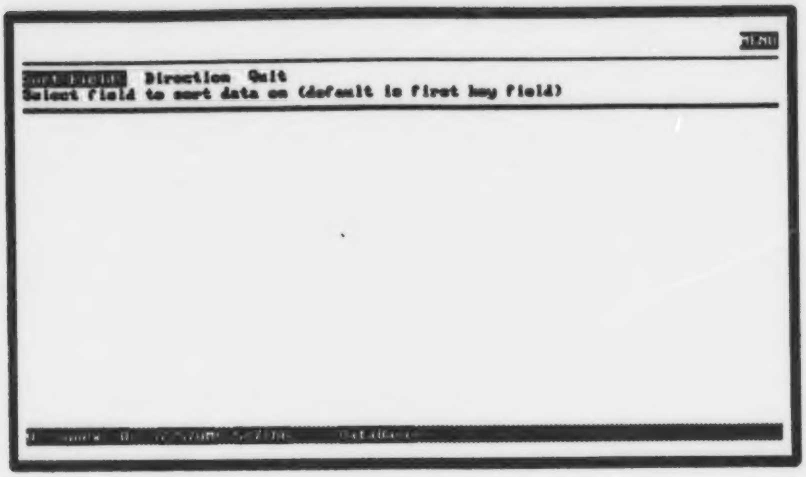
   > Retrieve ALL records sorted in ASCENDING sequence according to the FIRST sort field for the active data file. This is usually the Reference Number, but may be the Licence Number in the Water Licences and Dams files.

2. **Sort Criteria** - Allow access to the Sort Criteria Menu, for specification of further retrieval criterion for data. (See Notes Item 11.4.3 regarding number of decimal places required).

3. **Contain** - Search all records for a specific value.

4. **Quit** - Leave the Main Display Menu and return to the File Selection Menu.

For the purposes of this demonstration, we will have to change the sort criteria to retrieve only those records which have a Capacity from 1 to 10 kilowatts, sorted in DESCENDING order on the CAPACITY field. Position the highlighted cursor box over **Sort Criteria** and press return. This will present the **Sort Criteria Menu** which appears as follows:



```
                                                                   MENU
Sort Fields  Direction  Quit
Select field to sort data on (default is first key field)
```

⑥

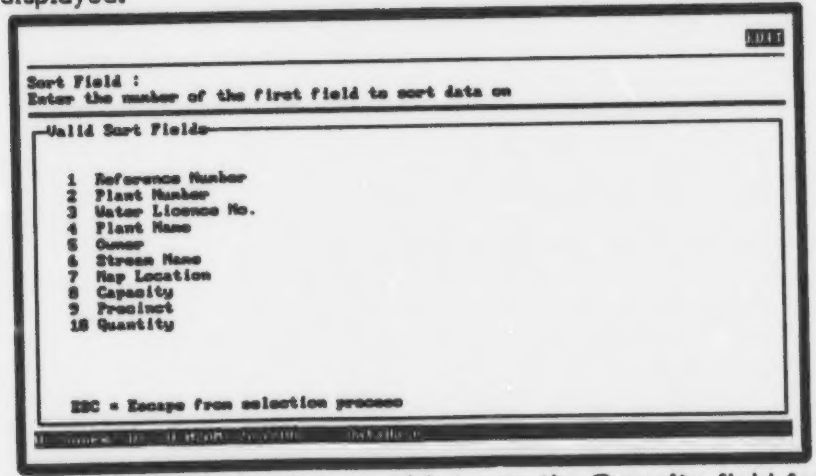
STEP 3

The **Sort Criteria Menu** presents three options. Proper use of these options will allow you to define for the database the exact criteria you wish to use for your data retrieval. These options allow you quick access to subsets of the data file records for viewing. These options are:

1. **Sort Fields** -

   Allows you to select which field within the data record you will be applying the sort criteria to. The default is always the first field (usually the Reference Number, with the exception of the Water Licences File and Dams File).

   Position your cursor over **Sort Fields** and press return. The following screen will be displayed:



```
                                                                   EDIT
Sort Field :
Enter the number of the first field to sort data on
Valid Sort Fields

  1  Reference Number
  2  Plant Number
  3  Water Licence No.
  4  Plant Name
  5  Owner
  6  Stream Name
  7  Map Location
  8  Capacity
  9  Precinct
  10 Quantity

  ESC = Escape from selection process
```

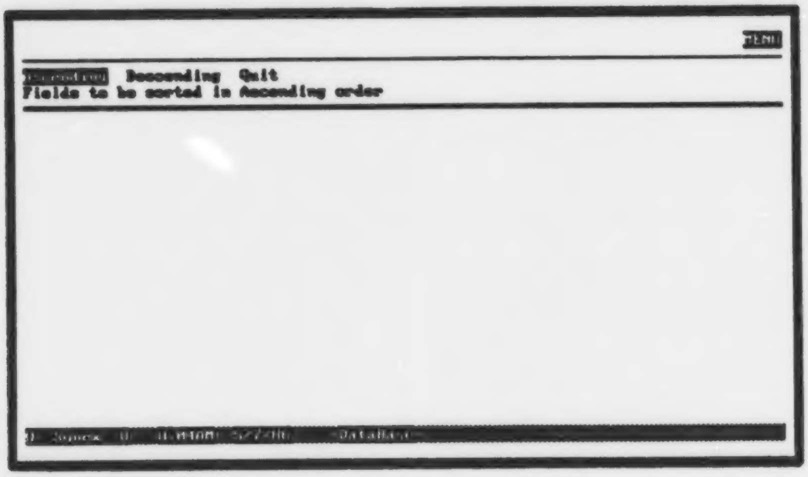
⑦

For this demonstration we wish to use the **Capacity** field for record retrieval, so select field number 8. Selection of ESC will allow you to escape from Sort Field Selection and reset the default field to field number 1.

Note - a sort by **Map Location** will give some apparently mixed listings because there are 4 different types of maps listed in the files. **Sorting by Precinct** is a better means of grouping projects geographically.

- a sort of Hydrological Information will result in apparently mixed order. This is due to ASCII ordering: D9 precedes E1 to E6, which precede 100, which precedes D10 to D39 etc.

2. **Direction** - Allows selection of sort sequencing in either ASCENDING order or DESCENDING order. The default is always an ASCENDING sort sequence. Position your cursor over **Direction** and press return. The following screen will be displayed:



```
Fields to be sorted in Ascending order
```

⑧

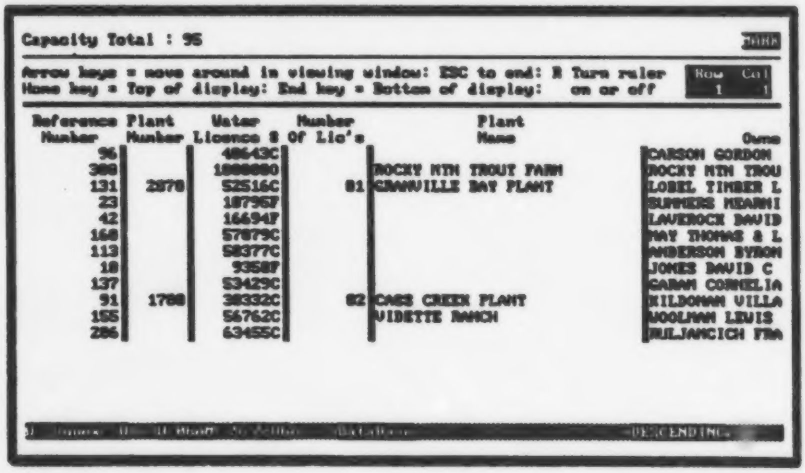
We wish our sort to be in DESCENDING order so position the cursor over DESCENDING and press return. Empty fields are read as the lowest value.

We have so far specified that we will retrieve ALL records sorted by Capacity in Descending order, however we only wish to retrieve those records with a capacity between 1 and 10 kilowatts. The ability to specify a range is provided by simply using the arrow keys to examine data once it is displayed.

3. **Quit** - Now that we have completely specified our Sort Criteria we may **Quit** from the Sort Criteria Menu and return to the Main Display Menu. Position your cursor over **Quit** and press return.

At this point you are now ready to have the Database retrieve your records. Position your cursor over Go on Screen 5 and press return. This will activate the database record retrieval function, and records will begin to be read into your computer's memory for display. A record counter will be displayed in the center of the screen which will display the number of records that have been read in. When all records are read, the **Display Viewing Window** will appear on the screen along with the data for your perusal as shown after pressing ESC: The screen is then adjusted with the arrow keys to show the desired range. Note that here we have shown the left hand side of the data sheet and eliminated the projects at the bottom, which would be less than 1 kW or would have **Capacity** missing.

In practice, one would search down the sorted column of the screen until the beginning of the desired range was found, then arrow left or tab/shift left to the Reference Number column, which is always the beginning of the data.



```
Capacity Total : 95

Arrow keys = move around in viewing window: ESC to end: R Turn ruler   Row  Col
Home key = Top of display: End key = Bottom of display:   on or off    1    1

Reference Plant    Water    Number              Plant
 Number   Number Licence # Of Lic's              Name                        Owne
       96|      |   48643C|        |                               |CARSON GORDON
      300|      |  1000000|        |ROCKY MTN TROUT FARM           |ROCKY MTN TROU
      131|  2870|   52516C|      01|GRANVILLE BAY PLANT            |LOBEL TIMBER L
       23|      |   18796F|        |                               |SUMMERS MEARNI
       42|      |   16694F|        |                               |LAVEROCK DAVID
      160|      |   57079C|        |                               |MAY THOMAS & L
      113|      |   58377C|        |                               |ANDERSON BYRON
       10|      |    9358F|        |                               |JONES DAVID C
      137|      |   53429C|        |                               |CARAM CORNELIA
       91|  1700|   38332C|      02|CASE CREEK PLANT               |KILDONAN VILLA
      155|      |   56762C|        |VIDETTE RANCH                  |WOOLMAN LEWIS
      286|      |   63455C|        |                               |BULJANCICH FRA

                                                          DESCENDING
```

⑨

Once users are familiar with the process they will be able to fully specify the data sort criteria and obtain the display in a few seconds.

> **Notice the field descriptor ruler.** The ruler describes the headings for each data field. It can be moved up and down through the rows of data by means of the **up** and **down** arrow keys. The left and right arrow keys will move the entire data window 1 page to the left or right respectively. Pressing the **home** key will return you to the first column/row of your data window. Pressing the END key and then the **down** arrow key will take you to the bottom of the file.

Pressing R will turn displaying of the Field Ruler ON or OFF at any time you are within the Displaying Window.

For a "Full Page Display" of any record use the Edit mode described in Section 11.4.3.

11.4.3 Editing of, Inserting of, or Searching for Records

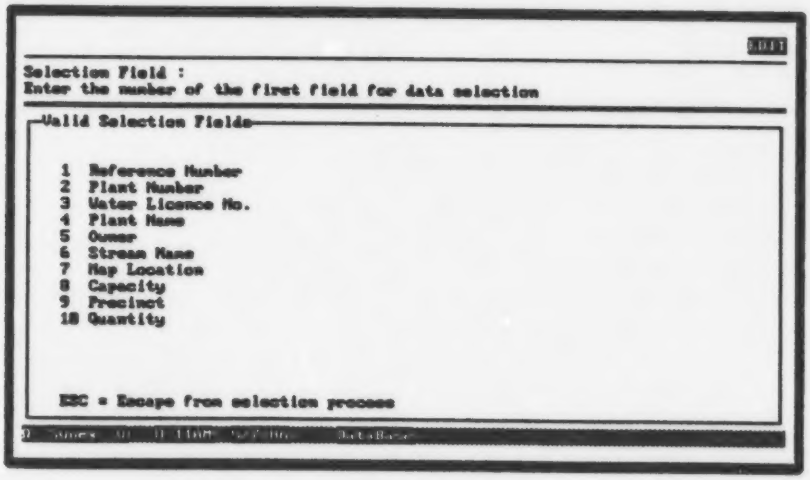
Selection of Insert-Edit from the Main Menu will present you with two choices:

(1) **Edit** - Allow editing of existing records or simply finding a detailed record description.

(2) **Insert** - Allow for insertion of new records

(1) Editing Records

Selection of EDIT will take you to the File Selection Menu. After selection of a file, in this case we will choose **Operating Systems**, you will be asked to choose which field you will be using to retrieve data records for editing or inspection. The field selection screen appears as follows after ESC is pressed twice:



```
                                                              EDIT
Selection Field :
Enter the number of the first field for data selection

Valid Selection Fields

   1  Reference Number
   2  Plant Number
   3  Water Licence No.
   4  Plant Name
   5  Owner
   6  Stream Name
   7  Map Location
   8  Capacity
   9  Precinct
   10 Quantity

   ESC = Escape from selection process
```

⑩

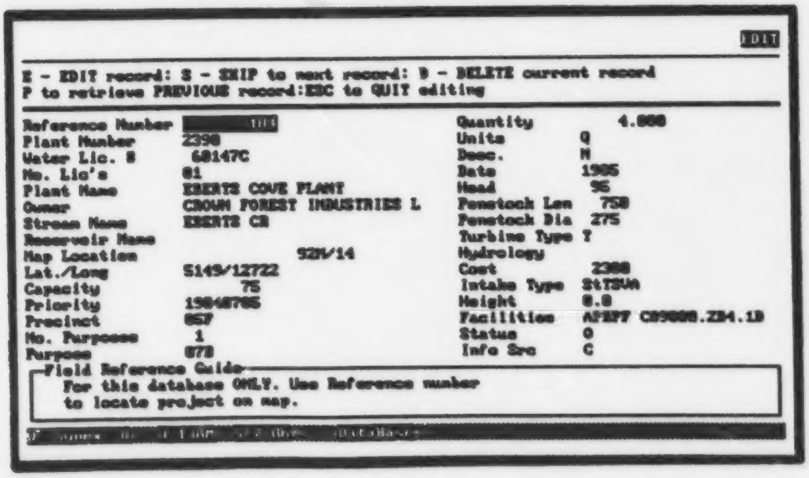
After selection of a field, you will be prompted to enter the field criteria which will allow the database to retrieve the specific record you require. If there are no records which exactly match your criteria, then the database will retrieve the next highest record for you. For example, if you wish to edit a record which has an **Owner** name called CROWN FOREST INDUSTRIES you would select owner (No 5) as your field selection and then enter CROWN FOREST INDUSTRIES as your field criteria. The database would then retrieve this record for editing. If you entered CROWN the database would retrieve the first record it found with a full name of CROWN or failing that, it would retrieve the next highest record. If there are no entries in the database that begin with CROWN then it would retrieve the next record in logical sequence which is GREATER than CROWN. Whenever a record is retrieved, as much information as possible should be entered to narrow the selection process. This is especially important in selecting **Map Location** because of the different map types catalogued. National Topographic System maps should be specified with the full number of spaces, even if the exact number is not known, eg. enter 92 G/00 instead of 92 G to locate projects near Vancouver. (Selecting by precinct is preferable).

Notes

Selection by 8. Capacity: Must have 1 decimal place - i.e. 10.0 (kW).

Selection by 10. Quantity: Must have 3 decimal places - i.e. 0.380 (cfs)

After retrieval of the record, the contents of the data record will be displayed in the EDITING WINDOW, as shown below.



```
                                                                    EDIT
E - EDIT record: S - SKIP to next record: D - DELETE current record
P to retrieve PREVIOUS record:ESC to QUIT editing

Reference Number  [illegible]                  Quantity         4.000
Plant Number      2390                         Units         Q
Water Lic. #       68147C                      Desc.         M
No. Lic's         01                           Date          1985
Plant Name        EBERTS COVE PLANT            Head           95
Owner             CROWN FOREST INDUSTRIES L    Penstock Len   750
Stream Name       EBERTS CR                    Penstock Dia  275
Reservoir Name                                 Turbine Type T
Map Location                 92M/14            Hydrology
Lat./Long         5149/12722                   Cost           2300
Capacity                75                     Intake Type  StTSUA
Priority          19840705                     Height       0.0
Precinct          057                          Facilities   APEPF CR9000.ZB4.1D
No. Purposes       1                           Status       O
Purpose           073                          Info Src     C
 ┌Field Reference Guide──────────────────────────────────────────────────┐
 │  For this database ONLY. Use Reference number                        │
 │  to locate project on map.                                           │
 └──────────────────────────────────────────────────────────────────────┘
```

⑪

At this point note that the screen is divided into three separate areas:

(1)	The Editing Menu	(Top of Screen)
(2)	The Editing Window	(Middle of Screen)
(3)	The Field Reference Guide	(Bottom of Screen)

Editing Menu

The Editing Menu provides a brief description of the main allowable commands which you may use within the editor. Essentially the Editor works in a two phase mode. Phase one is the higher level mode you are placed in upon initial retrieval of ANY data record. The following commands are available in mode 1:

(1) E = Edit the currently displayed record
(2) S = Skip to the next logical record based upon the active Field which was chosen upon initial entry into Editing Operations.
(3) D = Delete the currently displayed record.
(4) P = Display the previous record based upon the active Field.
(5) Q = Quit Editing and return to Main Menu.

The S and P functions are very handy for paging through data. **The Delete command is irreversible.** If you choose to delete the current displayed record, you will be asked to confirm for deletion. If you select **Yes** to proceed with deletion the record will be removed from the data file.

Selection of E will allow you access to phase 2 of the editor.

At this point you now have access to the data for editing.

Editor Operations

Now that you are in phase 2 edit mode, note that the **Editing Menu** has changed to display a new set of allowable commands for use in phase 2. These are a summary of the **main** commands which allow you to move around in the Editing Window, and perform various functions.

Your guide to editing the displayed record is the highlighted area. This area highlights the active record field which you may edit. It may be moved from field to field by pressing CR or utilizing your Up/Down Arrow keys. The size of this area will change from field to field depending upon what the allowable size of each field happens to be.

The operations of the Editor Keys, in addition to those shown on the Edit Menu of Screen 11, are summarized below:

Return Key - Also called CR or Enter, this key accepts the current field entry and positions the highlighted cursor area over the next field entry.

Left/Right Arrow Keys - Will move the cursor within the highlighted area.

Del Key - Will delete the character at the current cursor position and move the remaining characters one position to the left.

Backspace Key - Deletes the character immediately preceding the current cursor position and moves remaining characters one position to the left.

Home Key - Moves the cursor to the beginning of the field.

End Key - Moves the cursor to the end of the field.

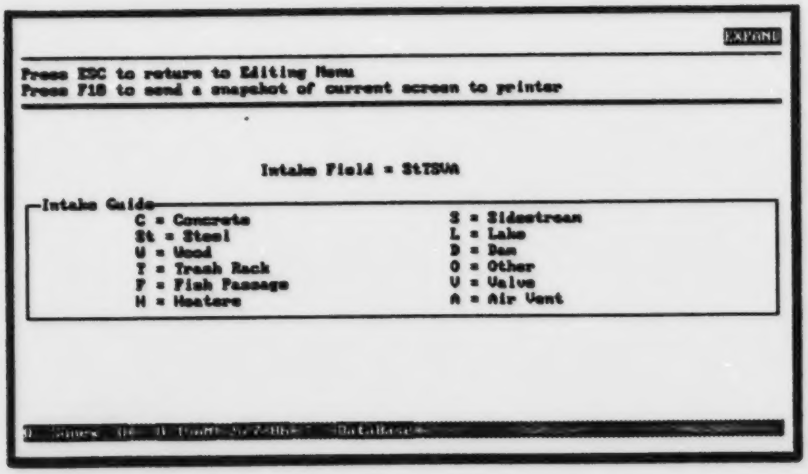
Tab/Shift-Tab - Move the cursor 8 spaces forward and backward respectively.

Letter/Number/-Character Keys Normal data entry. These characters will be reflected at the current cursor position. They will over-write any characters already at the current cursor positon, unless you have deleted or backspaced over any characters. In that case the editor will automatically place you into character insert mode. Any characters you type in will then be inserted into the field line at the current cursor position. All remaining characters will be shifted to the right. Once the field has become filled with the maximum amount of allowable characters, insert mode is turned off, and regular entry is allowed.

Esc Key - Pressing the Esc Key will blank the current highlighted area to allow for normal data entry. Pressing the Esc Key TWICE in succession will redisplay the original value displayed in the highlighted area. This can be useful if you have accidentally blanked a field, or do not wish to continue with your current entry but instead wish to restore the contents of the field as they originally were. Please note that once you move the highlighted area to another field you accept or log in whatever was in the previous field you moved from.

Field Reference Guide. The Field Reference Guide is displayed at the bottom of the screen, immediately above the Status Line. This guide will display information which is pertinent to each individual field as you move around through the Editing Window.

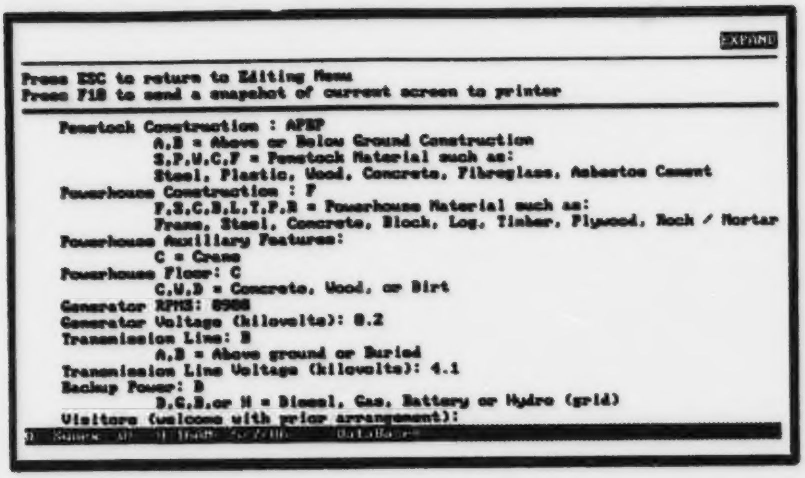
There are two special cases which require further explanation. If you are Editing data (Screen 11) and either the INTAKE TYPE or FACILITIES fields are present, when you position the highlighted area over one of these fields you will notice that the Field Reference Guide now displays a message telling you to **Press F2 to see expanded screen of information.** Pressing F2 will cause an **Expanded Screen** of information to be displayed in place of the Editing Window. The Expanded Intake Type screen looks similar to this:



```
                                                                  EXPAND
Press ESC to return to Editing Menu
Press F10 to send a snapshot of current screen to printer


                          Intake Field = StTSVA

-Intake Guide-----------------------------------------------------------
              C = Concrete                     S = Sidestream
              St = Steel                       L = Lake
              W = Wood                         D = Dam
              T = Trash Rack                   O = Other
              F = Fish Passage                 V = Valve
              H = Heaters                      A = Air Vent
```

⑫

The expanded Facilities screen looks like:



```
                                                              EXPAND
Press ESC to return to Editing Menu
Press F10 to send a snapshot of current screen to printer
    Penstock Construction : APBP
             A,B = Above or Below Ground Construction
             S,P,W,C,F = Penstock Material such as:
             Steel, Plastic, Wood, Concrete, Fibreglass, Asbestos Cement
    Powerhouse Construction : F
             F,S,C,B,L,T,P,R = Powerhouse Material such as:
             Frame, Steel, Concrete, Block, Log, Timber, Plywood, Rock / Mortar
    Powerhouse Auxiliary Features:
             C = Crane
    Powerhouse Floor: C
             C,W,D = Concrete, Wood, or Dirt
    Generator RPMS: 0900
    Generator Voltage (kilovolts): 0.2
    Transmission Line: B
             A,B = Above ground or Buried
    Transmission Line Voltage (kilovolts): 4.1
    Backup Power: D
             D,G,B,or H = Diesel, Gas, Battery or Hydro (grid)
    Visitors (welcome with prior arrangement):
```

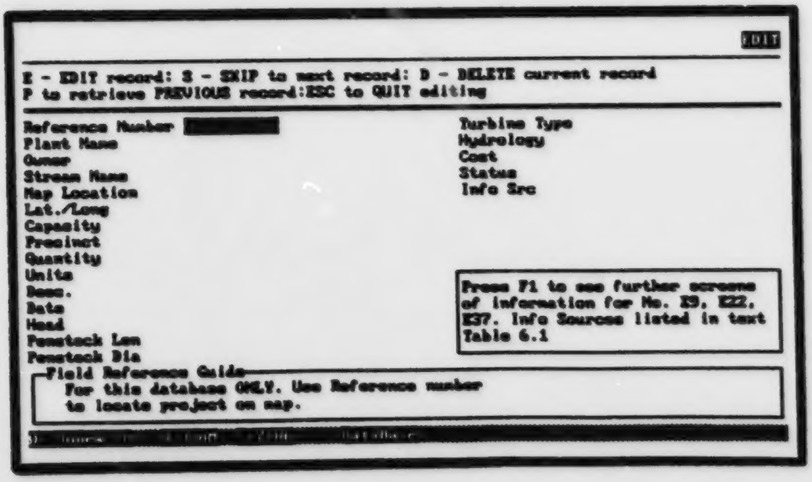
⑬

Note that the final line of the screen (visitors) will have a **V** inserted if visitors are welcome.

With both expanded screens, pressing **F10** will send a 'snapshot' of the screen to your printer. Pressing the **Esc** key will take you back to your editing window.

Another feature pertains to the **Pre-Feasibility Studies** data file. There are approximately 40 pages of summarized data for three major overview studies performed in British Columbia.

When the Pre-Feasibility Editing Window is displayed it will appear as follows:



```
                                                              EDIT
E - EDIT record: S - SKIP to next record: D - DELETE current record
P to retrieve PREVIOUS record:ESC to QUIT editing
Reference Number                   Turbine Type
Plant Name                         Hydrology
Owner                              Cost
Stream Name                        Status
Map Location                       Info Src
Lat./Long
Capacity
Precinct
Quantity
Units                              Press F1 to see further screens
Desc.                              of information for No. E9, E22,
Date                               E37. Info Sources listed in text
Head                               Table 6.1
Penstock Len
Penstock Dia
 Field Reference Guide
   For this database ONLY. Use Reference number
   to locate project on map.
```

⑭

Take note of the prompt box in the lower right hand corner of Screen 14. This prompting occurs only in the **Pre-Feasibility Editing Window**, and informs you that access to the summarized data is available.

(1) HYDRO - Presents the results of the Technology and Resource assessment by Sigma Engineering covering map level investigation of 665 sites in British Columbia close to the grid or to remote diesel grids.

(2) MICRO - Presents the sites listed in Micro Hydro by Crippen Consultants covering map level investigation of 73 sites near remote communities in British Columbia.

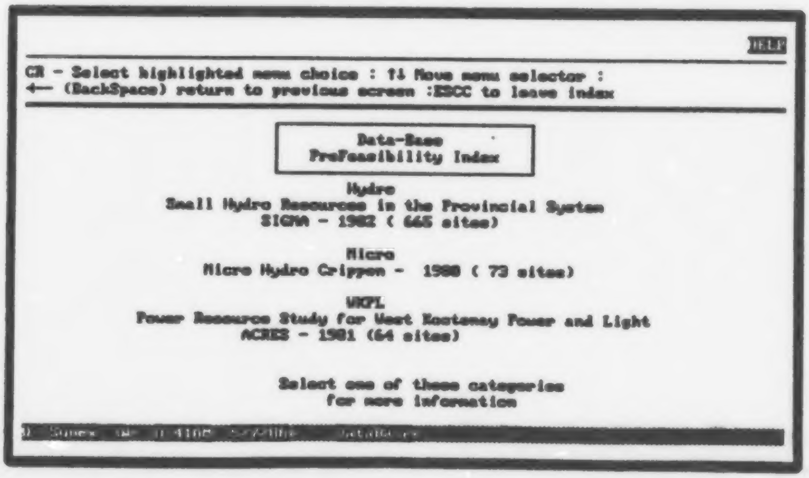
(3) WKPL - Presents the sites listed in the Power Resource Study by ACRES Consulting which went beyond map level to a true prefeasibility level of study. Some 64 sites with a potential to tie into the West Kootenay Power System are shown.

After pressing F1 to gain access to this data, you will be presented with the main index (Screen 15). Selection of any of the three subsystems is accomplished by highlighting the cursor area through movement by your keyboards arrow keys, and pressing return. After selection you may page through the data by highlighting CONTINUE or PREVIOUS and pressing return. Selection of INDEX at any point will take you back to the main index.

Pressing F10 will send a snapshot of the currently displayed screen to your printer.

Pressing your ESC key at any time will return you to the Pre-Feasibility Editing Window at the point you left it.

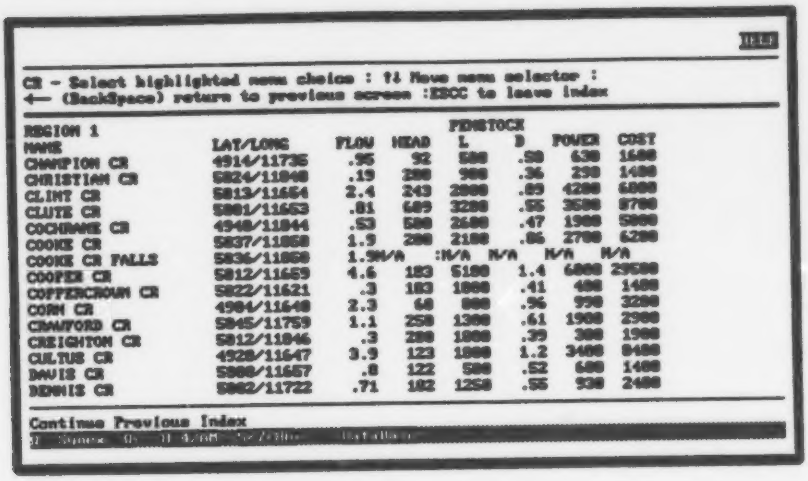
The Pre-Feasibility Main Index appears as follows:



```
CR - Select highlighted menu choice : ↑↓ Move menu selector :
←— (BackSpace) return to previous screen :ESCC to leave index

                    Data-Base
              PreFeasibility Index

                      Hydro
      Small Hydro Resources in the Provincial System
             SIGMA - 1982 ( 665 sites)

                      Micro
         Micro Hydro Crippen -  1988 ( 73 sites)

                       WKPL
  Power Resource Study for West Kootenay Power and Light
              ACRES - 1981 (64 sites)

             Select one of these categories
                 for more information
```

⑮

A sample data page from the "HYDRO" Subsystem file appears as below:



```
CR - Select highlighted menu choice : ↑↓ Move menu selector :
←— (BackSpace) return to previous screen :ESCC to leave index

REGION 1                                       PENSTOCK
NAME                LAT/LONG     FLOW   HEAD    L      D    POWER  COST
CHAMPION CR         4914/11736    .95     92    500   .50    630   1600
CHRISTIAN CR        5024/11040    .19    200    900   .36    290   1400
CLINT CR            5013/11654   2.4     243   2000   .89   4200   6000
CLUTE CR            5001/11653    .81    609   3200   .55   3500   8700
COCHRANE CR         4940/11844    .53    500   2600   .47   1900   5000
COOKE CR            5037/11850   1.9     200   2100   .86   2700   6200
COOKE CR FALLS      5036/11850   1.9N/A       :N/A   N/A    N/A    N/A
COOPER CR           5012/11659   4.6     183   5100   1.4   6000  29500
COPPERCROWN CR      5022/11621    .3     183   1000   .41    400   1400
CORN CR             4904/11640   2.3      60    800   .96    990   3200
CRAWFORD CR         5045/11759   1.1     250   1300   .61   1900   2900
CREIGHTON CR        5012/11846    .3     200   1000   .39    300   1900
CULTUS CR           4920/11647   3.9     123   1000   1.2   3400   8400
DAVIS CR            5000/11657    .8     122    500   .52    600   1400
DENNIS CR           5002/11722    .71    102   1250   .55    930   2400

Continue Previous Index
```

⑯

Note that the highlighted menu choice at the bottom of the screen (Continue, Preview, Index) indicates which screen will appear next when **Return** is pressed. Region 1 corresponds to the area shown on Table 7.1.4. Approximately 45 such screens exist in the **Hydro Subsystem** file to display the 665 sites.

Inserting Records

The inserting records feature functions almost identically to the editing function; with the following exceptions:

When in the inserting window, the **up** and **down** arrow keys do not function. To advance from field to field you must hit **return.** A field only becomes available for insertion AFTER you have pressed **return.**

If you fill in a field with data and then hit **F9** to update your database file, the last field you entered will NOT be included unless you have pressed **return.**

11.5 DATA OUTPUT

11.5.1 Printing

Selecting records for output to a printer is fairly straight forward. Upon entry to the PRINT selection from the main menu, the Output Field screen will be displayed. This allows you to selectively display which fields from within a database file you want to print. Selecting a field number will select that field as is indicated on the screen by an arrow. To de-select a field simply select that field's number and the arrow marker will disappear. Pressing F10 will select ALL fields for printing. Pressing ESC will allow you to escape out of the printing menu and selecting 0 signals the database that you are finished selecting fields.

After selecting 0 you will be asked to enter a **Valid Selection Field.** After selecting one of the choices you will be prompted for a **start** range and **end** range based on the selection field you have chosen. After selection of the **end** range you will be asked to confirm whether to start printing or not. Selecting YES will cause printing to begin. Selecting NO will take you back to file selection menu.

The printed format is linked in to the "characters per page" setting of the printer. This means that whenever the width of the page is exceeded, the remaining characters of the record will be displayed on the next line below. If this form of display is inconvenient to read, it can be adjusted by simply outputting the data in groups of categories which will fit the printer width.

11.5.2 Files

This selection from the main menu allows you access to the file handling capabilities of the database. These selections are:

(1) **File Creation.** This will allow you to create a new empty data file, based on one of the eight possible file formats.

(2) **File Status**

This will show you the:

(1) Record Length

(2) Page Size

(3) Number of Keys

(4) Number of Records in the data file

(3) **File Unload**

Facilitates downloading of BTREE records into an ASCII data file. This function works identically to the Printer option with the exception that you will be prompted for a disk file name. DO NOT enter in a file extension as the database will automatically append .EMR onto the end of the filename you enter. For example, records could be loaded into a a Lotus 1-2-3 program by using the Lotus FILE/IMPORT command, to load in the ASCII text file created by the database.

(4) **File Extend**

This will allow you to extend a database file onto a second floppy diskette. Please note that in the case of extended database files, BOTH floppy diskettes MUST be in the drives for operation. If the extended floppy file was created on drive B then that is the drive it must always be accessed from.

11.6 GLOBAL (Hard Disk Only)

The GLOBAL selection from the main menu allows the user to locate and display any records which contain an entered value from ALL the EMR Database files.

After selecting GLOBAL from the main menu, the user will be prompted for input of a value. The Database will then search each record for instances where this exact value exists. Each file in the Database will be opened for this search. After all files have been examined, the records which contained the entered value will be displayed in a window similar to the Display Viewing Window.

The GLOBAL feature uses the FileNames entered in the Configure Screen for opening of the individual data files. If a file is not present on the hard disk, the Database will note this and progress to the next file.

11.7 QUITTING THE DATABASE

To finish a work session, select **Exit** from the main menu and press **Return.** Remove discs if applicable and turn computer off.

APPENDIX 1
Error Messages

The EMR DataBase provides for a wide range of error checking on the data files and data records that comprise the system. Though error conditions will be infrequently encountered, the possible conditions which may arise, along with the appropriate action to take in each instance, are detailed in this Appendix.

01 Not Applicable.

02 I/O Error: An error has been encountered during a disk read or write operation. This could indicate a possible damaged BTRIEVE data file or the file being accessed is not a valid BTRIEVE data file. Exit from the DataBase, and then re-enter and try the operation again. If unsuccessful, replacement of the appropriate datafile with a backup is advised.

03 No Open: The file which is being requested for operations has not been successfully opened. Check your Configure Menu to ensure you have the correct File Name specified. Also ensure that the file is accessible on the current drive/directory.

04 Key Not Found: The requested value for the data field has not been found within the data file.

05 Not Applicable

06 Invalid Key Number: The sort/selection field specified is not valid for the current data file within use. Ensure that you are selecting valid field choices.

07 Not Applicable

08 Not Applicable

09 End Of File: The end of the file has been reached.

10 Not Applicable

11 Invalid File Name: The Data File that the database is attempting to open does not conform to DOS file naming conventions. Check your Configure Menu and DOS manual to ensure that the file name is correct.

12 File Not Found: A request to operate on a Data File cannot be acknowledged due to the fact that the file is not present in the current drive/ directory. Ensure that the file is correctly named in the Configure Menu, and that the file is accessable in the current drive/directory.

13 Extension Error: (Floppy based systems only) One of the two extended floppy diskette data files is not present within the correct drive. Ensure that the extended files are both loaded on the correct drives.

14 Preopen Error: One of BTRIEVE'S support files could not be created or opened. This is the Pre-Image file, and it must be created by BTRIEVE before any further file operations may take place. Possible causes for this are a full diskette or directory. In the case of a full directory on a hard disk, delete or move some non-essential files to allow BTRIEVE room to operate.

15 PreImage Error: Same as error 14.

16 Expansion Error: An error has occured during updating of an extended floppy diskette data file. Check for damaged diskette, and replace with backup if necessary.

17 Close Error: BTRIEVE cannot close and flush a Data File. Check for damaged data file and/or disk.

18 Disk Full: The disk is full. Delete unnecessary files to free more disk room.

19 Unrecoverable Error: An unrecoverable error has occured. File integrity cannot be ensured. Replace the data file with the most recent backup.

20 Record Manager Inactive: The BTRIEVE record manager has not been loaded into memory before the EMR DataBase has been loaded. This function is commonly performed by the Batch file HYDATAB.BAT which will first load BTRIEVE into memory, and then the EMR DataBase. Ensure that the file BTRIEVE.EXE is accessable to the Batch file.

21 Not Applicable

22 Not Applicable

23 Not Applicable

24 Not Applicable

25 File Creation Error: The file that BTRIEVE is attempting to create has failed. Possible causes are a full disk, or a damaged diskette, or the disk is write protected.

26 Not Applicable

27 Not Applicable

28 Not Applicable

29 Not Applicable

30 Invalid BTRIEVE File Name: The filename and file specified for BTRIEVE operations is not a valid BTRIEVE file. Check the Configure Menu to ensure that the file name being accessed is correct.

31 Extend Error: The filename specified is already extended. Only one extension per data file is allowed.

32 Extend I/O Error: The filename specified cannot be extended. Possible causes are a full disk, full directory, or disk is write protected.

33 Extend Drive Error: An attempt has been made to extend a file onto the same logical disk drive as the original.

34 Invalid Extend Name: The filename specified for the extended file is not a valid DOS filename.

35 Not Applicable

36 Not Applicable

37 Not Applicable

38 Not Applicable

39 Not Applicable

40 Not Applicable

41 Not Applicable

42 Incomplete Accelerated Access: The file being accessed was previously damaged while being accessed in accelerated mode. The files integrity cannot be ensured. Replace with the most recent backup.

43 Not Applicable

44 Not Applicable

45 Not Applicable

46 Not Applicable

47 Not Applicable

48 Not Applicable

49 Not Applicable

The following messages may also be encountered during initialization of BTRIEVE.

- Program will not fit in memory: Your system does not have adequate memory to load BTRIEVE. Ensure that you have a minimum of 256 K RAM, and there are NO memory resident programs loaded.

- Program already loaded: BTRIEVE is currently residing in memory.

APPENDIX TWO
Emr DataBase File Layouts

This appendix documents the file structure of all eight EMR DataBase files. The layout is organized in tabular format, with the following information supplied:

1. FileName (as originally supplied with the EMR System).
2. Record Length.
3. Field Names
4. Field Sizes
5. Keyed or Non-Keyed field. (Sorting is permitted on Keyed only)

1. Operating Systems

File Name: OPSYS.BTR
Record Length: 260 bytes

Field Name	Field Size	Key/ Non-Key
Reference Number	10	Key
Plant Number	4	Key
Water Licence	7	Key
Number Of Licences	2	
Plant Name	28	Key
Owner	25	Key
Stream Name	25	Key
Reservoir	25	
Map Location	18	Key
Latitude	10	
Capacity	8	Key
Priority	8	
Precinct	3	Key
Number of Purposes	2	
Purpose	3	
Quantity	9	Key
Units	1	
Description	2	
Date	6	
Head	3	
Penstock Length	5	
Penstock Diameter	4	
Turbine	2	
Hydrology	2	
Cost	5	
Intake	15	
Height	3	
Facilities	20	
Status	3	
Information Source	2	

2. Case Studies

File Name: CSSYS.BTR
Record Length: 198 bytes

Field Name	Field Size	Key/ Non-Key
Reference Number	10	Key
Plant Number	4	
Water Licence Number	7	
Plant Name	28	
Owner	25	
Stream Name	25	Key
Reservoir	25	
Map Location	18	Key
Latitude	10	
Capacity	8	Key
Priority	8	
Precinct	3	Key
Quantity	9	
Units	1	
Description	2	
Date	6	
Head	3	
Information Source	2	

3. Historical Information

File Name: HISYS.BTR
Record Length: 190 bytes

Field Name	Field Size	Key/ Non-Key
Reference Number	10	Key
Plant Number	4	
Water Licence Number	7	Key
Plant Name	28	
Owner	25	
Stream Name	25	Key
Reservoir	25	
Map Location	18	Key
Latitude	10	
Capacity	8	Key
Precinct	3	Key
Quantity	9	
Units	1	
Description	2	
Date	6	
Head	3	
Information Source	2	

4. Feasibility Studies

File Name: FSSYS.BTR
Record Length: 175 bytes

Field Name	Field Size	Key/ Non-Key
Reference Number	10	Key
Plant Name	28	
Owner	25	
Stream Name	25	Key
Map Location	18	Key
Latitude	10	
Capacity	8	
Precinct	3	Key
Quantity	15	Key
Units	1	
Description	2	
Date	4	
Head	3	
Penstock Length	5	
Penstock Diameter	4	
Turbine	2	
Hydrology	2	
Cost	5	
Status	3	
Information Source	2	

5. PreFeasibility Studies

File Name: PFSYS.BTR
Record Length: 175 bytes

Field Name	Field Size	Key/ Non-Key
Reference Number	10	Key
Plant Name	28	
Owner	25	
Stream Name	25	Key
Map Location	18	
Latitude	10	
Capacity	8	
Precinct	3	Key
Quantity	15	Key
Units	1	
Description	2	
Date	4	
Head	3	
Penstock Length	5	
Penstock Diameter	4	
Turbine	2	
Hydrology	2	
Cost	5	
Status	3	
Information Source	2	

6. Hydrological Information

File Name: HYSYS.BTR
Record Length: 52 bytes

Field Name	Field Size	Key/ Non-Key
Reference Number	10	Key
Stream Name	25	Key
Latitude	10	
Precinct	3	Key
Hydrology	2	
Information Source	2	

7. Water Licences

File Name: WLSYS.BTR
Record Length: 174 bytes

Field Name	Field Size	Key/ Non-Key
Water Licence Number	7	Key
Number Of Licences	2	
Plant Name	28	
Owner	25	Key
Stream Name	25	Key
Reservoir	25	
Map Location	18	Key
Latitude	10	
Priority	8	
Precinct	3	Key
Number of Purposes	2	
Purpose	3	
Quantity	15	Key
Units	1	
Status	3	

8. Dams

File Name: DASYS.BTR
Record Length: 207 bytes

Field Name	Field Size	Key/ Non-Key
Plant Number	4	
Water Licence Number	7	Key
No Of Licences	2	
Plant Name	28	
Owner	25	Key
Stream Name	25	Key
Reservoir	25	
Map Location	18	Key
Latitude	10	
Priority	8	
Precinct	3	Key
Number of Purposes	2	
Purpose	3	
Quantity	15	Key
Units	1	
Date	6	
Height	3	
Facilities		
- Length	5	
- Type	5	
- Outlet	4	
- Spillway	5	
- Facility Units	1	
Status	3	

12. REFERENCES

12.1 GENERAL REFERENCES

1. G. R. G. CONWAY., **Water Powers of Canada; Province of British Columbia,** Dominion Water Power Branch, Department of the Interior, Ottawa, 1915.

2. A. V. WHITE, **Water Powers of British Columbia,** Commission of Conservation, Ottawa, 1919.

3. WATER RIGHTS BRANCH, **Water Powers of British Columbia, Canada,** Department of Lands, Victoria, 1930.

4. WATER RIGHTS BRANCH, **Water Powers of British Columbia, Canada,** Department of Lands and Forests, Victoria, 1954.

5. WILLIAMS, W.A. **"The Granby Power Plant at Anyox, B.C.",** Engineering and Mining Journal, October 27, 1917, pp 743-747.

6. WATER MANAGEMENT BRANCH, **Annual Power Returns,** Ministry of Environment, Victoria. BC.

7. McKAY, G.H., **Mill Installation and Power Development at Big Missouri Mine,** The Canadian Institute of Mining and Metallurgy, Trans. Volume 41, 1938, pp 329-342.

8. WARD, P.R.B., **personal communication.**

9. McDOUGALL, ALMA, Barriere and District Heritage Society, **personal communication,** 6 March 1986.

10. HAMM, H.W., **Low Cost Development of Small Water Power Sites,** Volunteers in Technical Assistance, USA 1967.

12.1 GENERAL REFERENCES (Cont'd..)

11. ACRES CONSULTING SERVICES LTD. 1981. **Power Resource Study, An Overview.** West Kootenay Power and Light Company Ltd.

12. CRIPPEN CONSULTANTS, **Micro Hydro**. 1980. Energy Mines and Resources Canada.

13. SIGMA ENGINEERING LTD. 1983. **Small Hydro in the Provincial System: A Technology and Resource Assessment.** Ministry of Energy Mines and Petroleum Resources.

14. WATER SURVEY OF CANADA, Water Resources Branch, Inland Waters Directorate, Environment Canada, **Surface Water Data, British Columbia, 1984. Ottawa Canada 1985.**

15. WATER SURVEY OF CANADA, Water Resources Branch, Inland Waters Directorate, Environment Canada, **Historical Streamflow Summary, British Columbia to 1984.** Ottawa Canada 1985.

16. WATER SURVEY OF CANADA, Water Resources Branch 1961, Inland Waters Directorate, Environment Canada, **Water Power Listings, Undeveloped Sites in British Columbia.** Water Resources Reference Number 44 .

17. ESQUIMALT WATER WORKS COMPANY, Letter from T Lubbe, Manager to L Adams, Victoria B.C. February 27, 1905.

18. **MINISTRY OF ENVIRONMENT, BRITISH COLUMBIA, Undeveloped Power Sites in B.C. - Working Papers by Earl D Anthony 1963.**

12.2 PHOTOGRAPHIC REFERENCES FOR SECTION 5

Figure No.	Title	Source	Archives Cat. No.	Archives Negative No.
5.1	Barriere Diversion Dam	Provincial Archives	48961	C -3223
5.2	Britannia Power Development	Reference 3		
5.3	Anyox Dam	Provincial Archives	76236	D -9611
	Anyox Power Plant		25616	A -9694
5.4	Goldstream Powerhouse	"	85197	E -6030
5.5	Illecillewaet Falls Log Crib Dam	"	25255	G -4052
	Illecillewaet Dam	"	58061	C -9630
5.6	Jordan River Development -			
	Diversion Dam-Ambursen Type	Reference 1		
	Diversion Dam from Downstream	"		
	Two 6500 hp Pelton-Doble wheels and 6400 kW Generator rotar	"		
5.7	Puntledge River Development -			
	Comox Lake Storage Dam	Reference 1		
	Diversion Dam	"		
	Comox Lake Dam-Buttresses	Reference 3		
	Woodstave Pipe	Reference 1		
5.8	Ocean Falls Development -			
	Dam and Powerplant	Provincial Archives	40750	G -4053
	New Dam with Radial Gates		40901	G -4054
	No 2 Power Plant	Reference 4		
5.9	Dam on Similkameen River	Provincial Archives	22373	A -7989
	Hedley Power Plant		22375	A -7991
5.10	Woodworth Lake Dam	Reference 3		
5.11	Goat River Dam	Reference 4		
5.15	Granite Falls Dam	Reference 3		
5.16	Cougar Lake Dam	"		
5.18	Dam on Illecillewaet River near Glacier	Reference 1		

12.2 PHOTOGRAPHIC REFERENCES FOR SECTION 5 (Cont'd..)

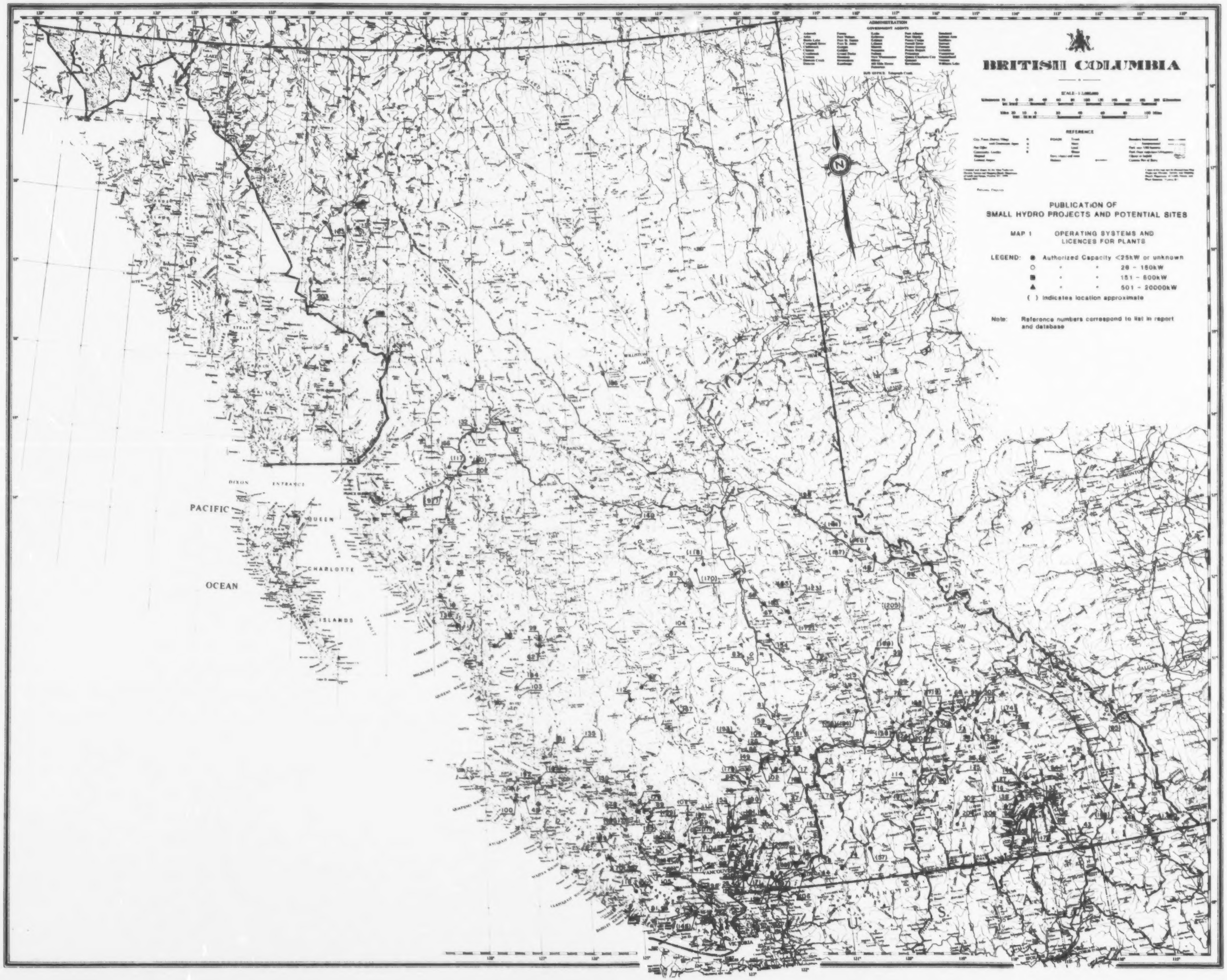
Figure No.	Title	Source	Archives Cat. No.	Archives Negative No.
5.19	Fortunes Creek Development	Reference 3		
5.20	Cascade Creek Development	Reference 3		
	Big Missouri Development	Reference 7		
5.21	Woodstave Pipe for Barriere Development	Provincial Archives	48960	C -3222
	Flume entering tunnel near Hedley	"	23656	A -8681
	Flume on Pine Creek near Atlin	"	61934	D -1735

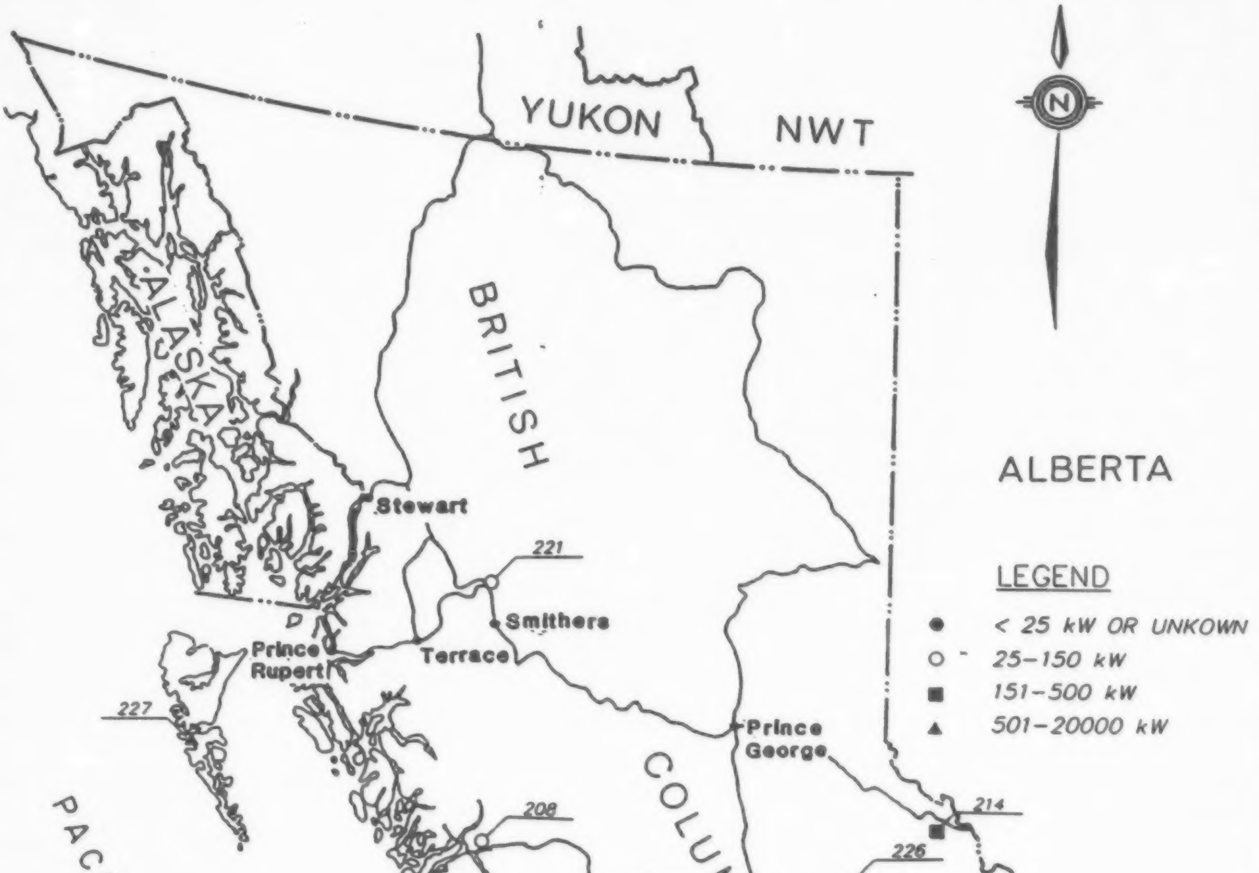
Note: Photos were not available for Projects 5.12, 5.13, 5.14 and 5.17.

13. MAPS

1. OPERATING & LICENSED SYSTEMS (TO 1986)
1A. OPERATING & LICENSED SYSTEM (1986 TO 1989)
2. CASE STUDIES
   HISTORICAL STUDIES
   FEASIBILITY STUDIES
   PREFEASIBILITY STUDIES
3. PRECINCTS, WATER LICENSES
   DAMS
4. ACTIVE HYDROMETRIC STATIONS
5. DISCONTINUED HYDROMETRIC STATIONS

Items 4 and 5 are available from Environment Canada (Water Survey of Canada)

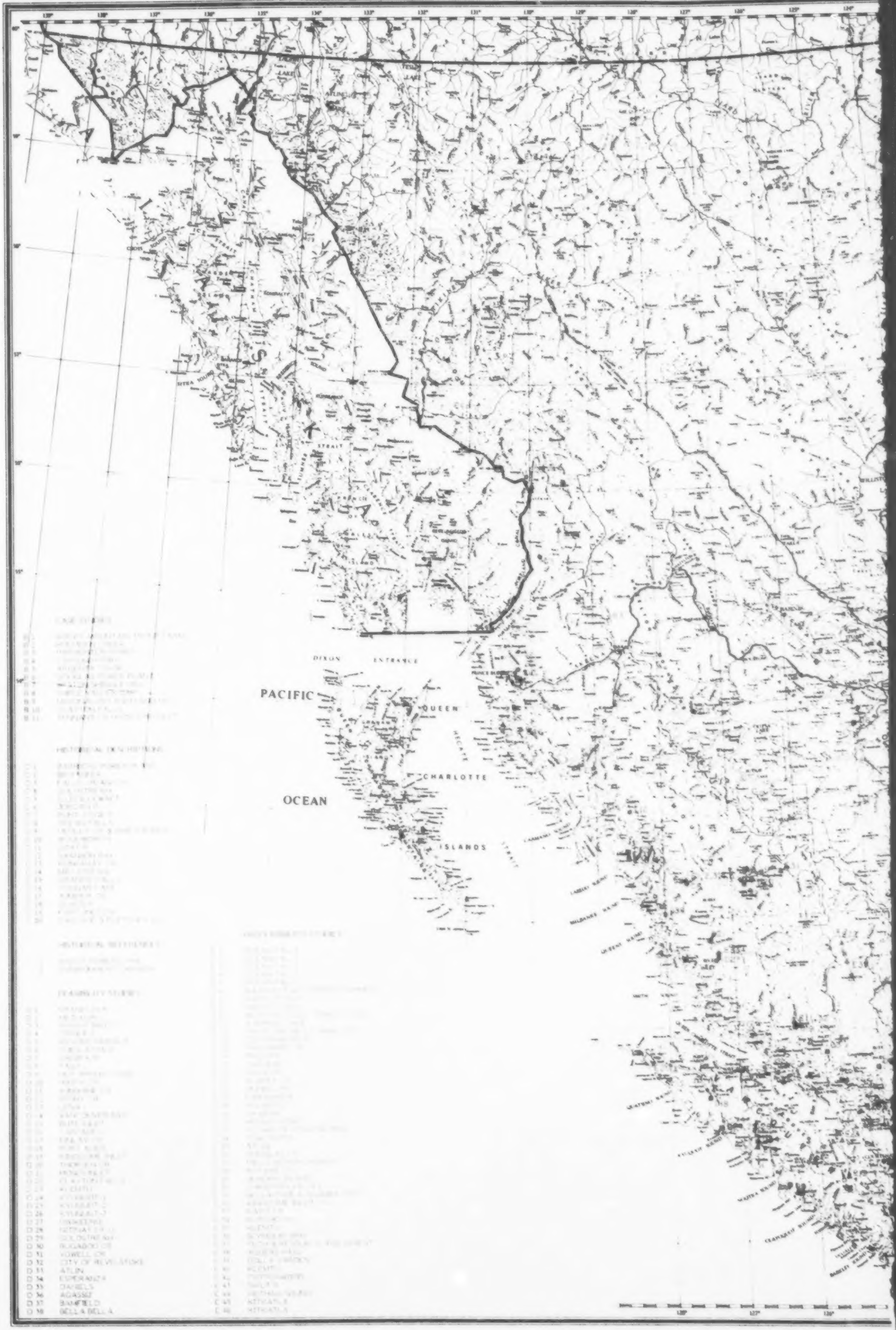

BRITISH COLUMBIA
PUBLICATION OF
SMALL HYDRO PROJECTS AND POTENTIAL SITES
MAP 1 OPERATING SYSTEMS AND LICENCES FOR PLANTS
LEGEND: ● Authorized Capacity <25kW or unknown
○ " " 26 - 150kW
■ " " 151 - 500kW
▲ " " 501 - 20000kW
( ) indicates location approximate
Note: Reference numbers correspond to list in report and database
PACIFIC
OCEAN
DIXON ENTRANCE
QUEEN
CHARLOTTE
ISLANDS
VICTORIA

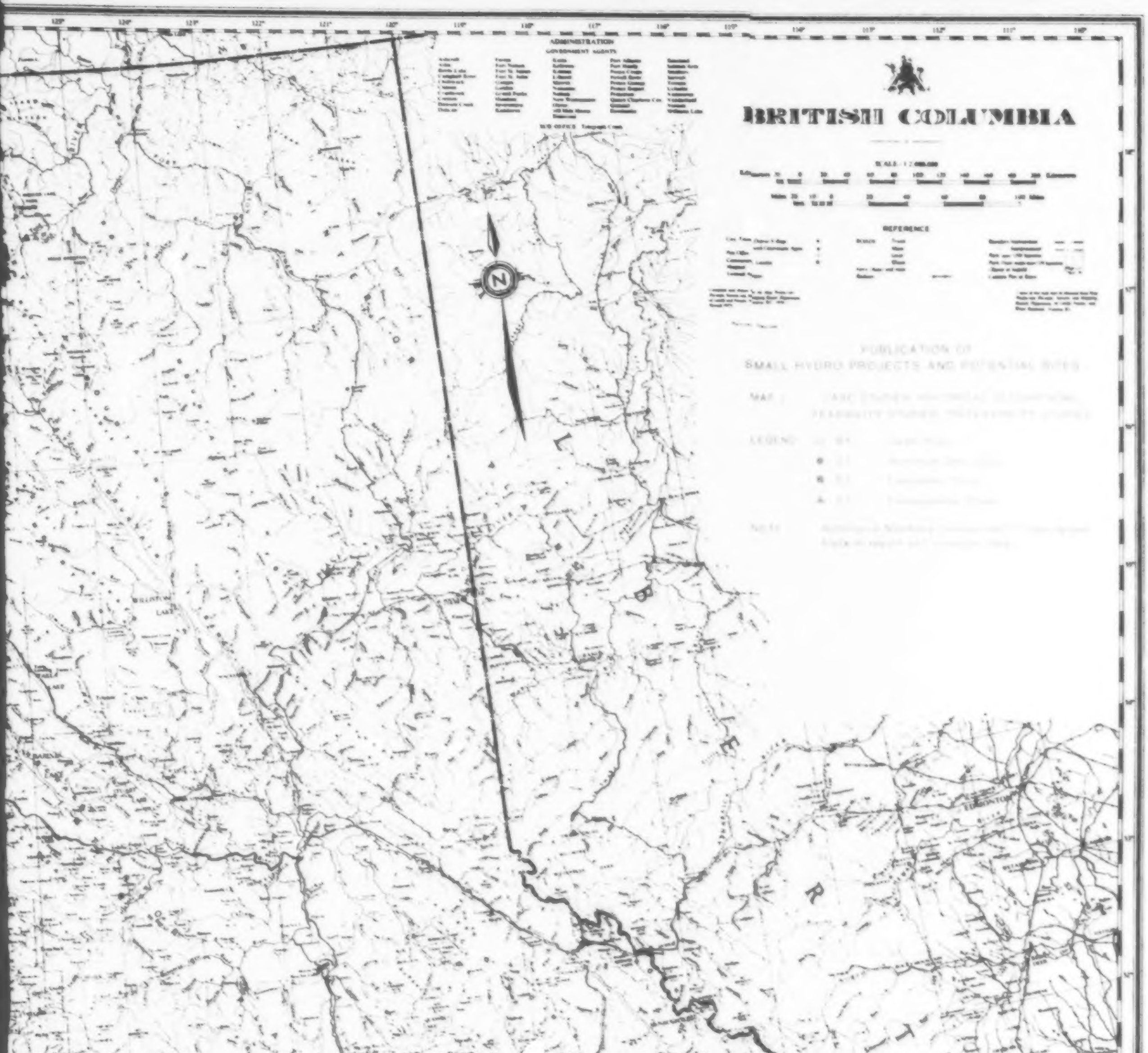

YUKON
NWT
ALASKA
BRITISH
COLUMBIA
ALBERTA
PACIFIC
OCEAN
WASHINGTON
MONTANA
IDAHO
N
Stewart
Smithers
Terrace
Prince Rupert
Prince George
Vancouver
221
227
208
214
226
207
216
217
212
228
215(219)
211
222
218
220
213
225
224
223
209
210
LEGEND
● < 25 kW OR UNKOWN
○ 25–150 kW
■ 151–500 kW
▲ 501–20000 kW
0 100 200 Km
1 : 8,000,000

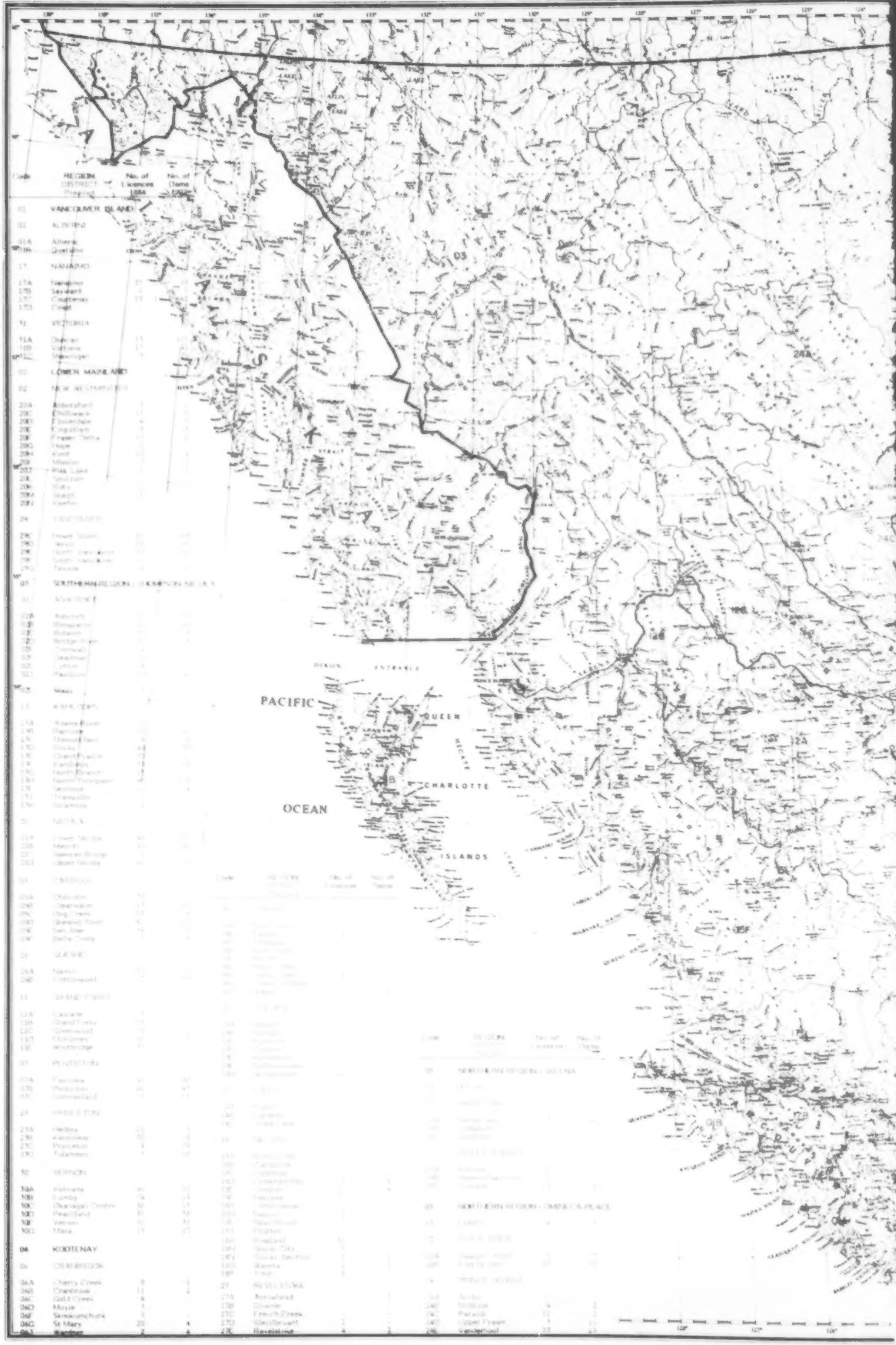
**LOCATION PLAN OF
LICENSED PROJECTS
1986-1989**

NOTE:
*NUMBERS ARE REFERENCE NUMBERS
IN E.M.R. DATABASE.*

MAP 1A


ALASKA
DIXON ENTRANCE
PACIFIC OCEAN
QUEEN CHARLOTTE ISLANDS
CASE STUDIES
HISTORICAL DESCRIPTIONS
HISTORICAL REFERENCES
FEASIBILITY STUDIES
D 30 BUGABOO CR
D 31 VOWELL CR
D 32 CITY OF REVELSTOKE
D 33 ATLIN
D 34 ESPERANZA
D 35 DANIELS
D 36 AGASSIZ
D 37 BAMFIELD
D 38 BELLA BELLA
C 45 KITKATLA
C 46 KITKATLA

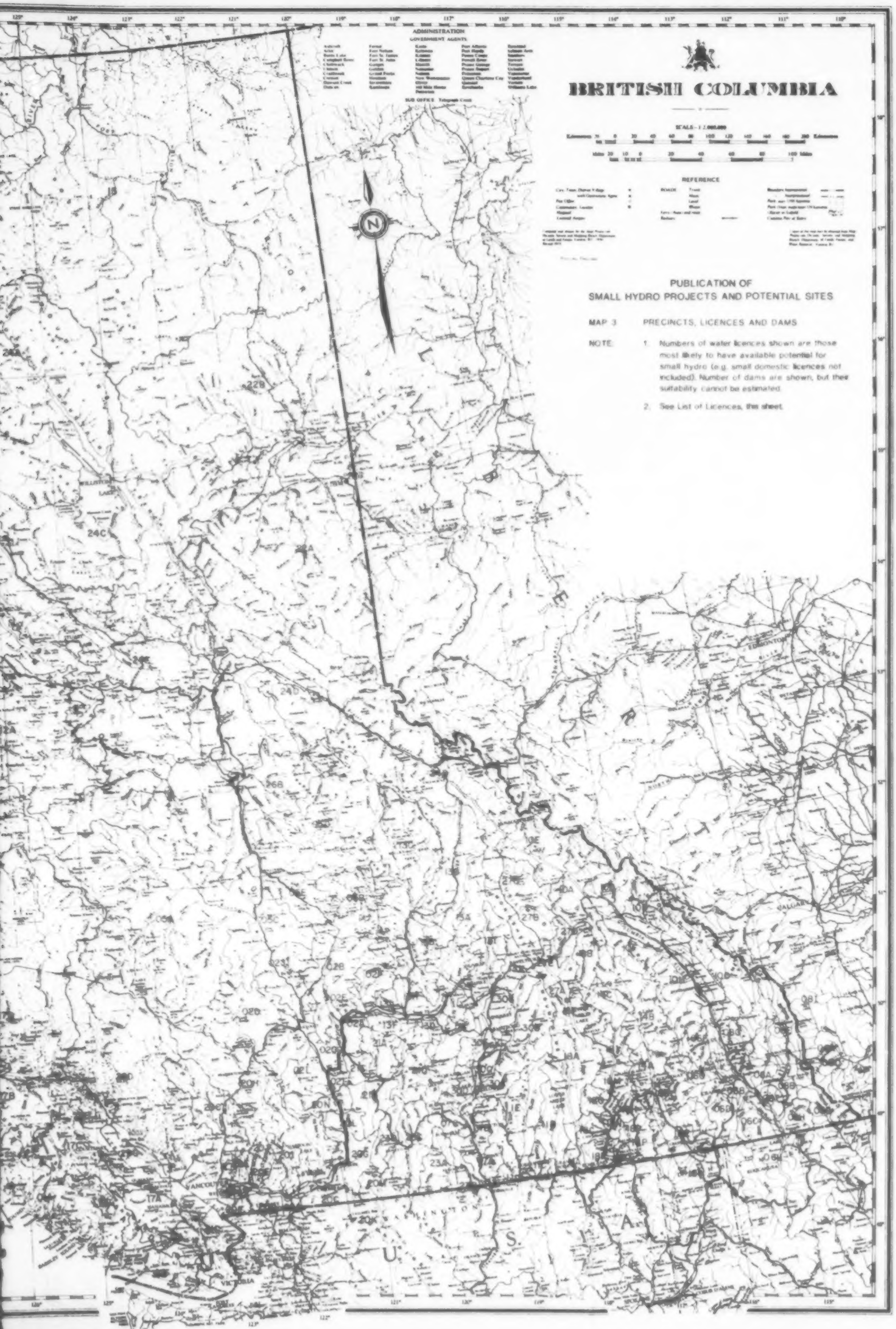

ADMINISTRATION
GOVERNMENT AGENTS
BRITISH COLUMBIA
REFERENCE
PUBLICATION OF
SMALL HYDRO PROJECTS AND POTENTIAL SITES
MAP 1
LEGEND
NOTE
A L B E R T A
VANCOUVER
VICTORIA
U S A
N



Code	REGION DISTRICT Precinct	No. of Licences 1984	No. of Dams 1984
01	**VANCOUVER ISLAND**		
01	ALBERNI	[illegible]	[illegible]
01A	Alberni		
01B	Quatsino		
17	NANAIMO		
17A	Nanaimo	[illegible]	[illegible]
17B	Sayward	[illegible]	[illegible]
17C	Courtenay	[illegible]	[illegible]
17D	[illegible]		
31	VICTORIA		
31A	Duncan	[illegible]	[illegible]
31B	Victoria	[illegible]	[illegible]
31C	Shawnigan	[illegible]	
02	**LOWER MAINLAND**		
02	NEW WESTMINSTER		
20A	Abbotsford	[illegible]	[illegible]
20C	Chilliwack	[illegible]	[illegible]
20D	Cloverdale	[illegible]	[illegible]
20E	Coquitlam	[illegible]	[illegible]
20F	Fraser Delta	[illegible]	[illegible]
20G	Hope	[illegible]	
20H	Kent	[illegible]	[illegible]
20I	Mission	[illegible]	[illegible]
20J	Pitt Lake	[illegible]	[illegible]
20K	[illegible]		
20M	[illegible]		
20N	Skagit	[illegible]	
20N	Keefer		
29	VANCOUVER		
29C	Howe Sound	[illegible]	[illegible]
29D	Jervis	[illegible]	[illegible]
29E	North Vancouver	[illegible]	[illegible]
29F	South Vancouver		
29G	Texada	[illegible]	[illegible]
03	**SOUTHERN REGION - THOMPSON-NICOLA**		
32	ASHCROFT		
32A	Ashcroft	[illegible]	[illegible]
32B	Bonaparte	[illegible]	[illegible]
32C	Botanie	[illegible]	[illegible]
32D	Bridge River	[illegible]	[illegible]
32E	Cornwall	[illegible]	
32F	Deadman	[illegible]	[illegible]
32G	Lytton	[illegible]	
32J	Pavilion	[illegible]	[illegible]
03	[illegible]		
13	KAMLOOPS		
13A	Adams River	[illegible]	
13B	Barriere	[illegible]	[illegible]
13C	[illegible]	[illegible]	[illegible]
13D	[illegible]	[illegible]	[illegible]
13E	Grand Prairie	[illegible]	
13F	Kamloops	[illegible]	[illegible]
13G	North Branch	[illegible]	
13H	North Thompson	[illegible]	[illegible]
13I	Seymour	[illegible]	[illegible]
13J	Tranquille	[illegible]	
13K	Salmon Arm	[illegible]	
20	NICOLA		
21A	Lower Nicola	[illegible]	[illegible]
21B	Merritt	[illegible]	[illegible]
21C	Spences Bridge	[illegible]	
21D	Upper Nicola	[illegible]	[illegible]
03	CARIBOO		
03A	Chilcotin	[illegible]	
29B	Clearwater	[illegible]	[illegible]
29C	Dog Creek	[illegible]	[illegible]
29D	Quesnel River	[illegible]	[illegible]
29E	San Jose	[illegible]	[illegible]
29F	Bella Coola	[illegible]	[illegible]
26	QUESNEL		
26A	[illegible]	[illegible]	
26B	Cottonwood	[illegible]	[illegible]
11	GRAND FORKS		
11A	Cascade	[illegible]	
11B	Grand Forks	[illegible]	[illegible]
11C	Greenwood	[illegible]	
11D	Midway	[illegible]	[illegible]
11E	Westbridge	[illegible]	
07	PENTICTON		
07A	Fairview	[illegible]	[illegible]
07B	Penticton	[illegible]	[illegible]
07C	Summerland	[illegible]	[illegible]
23	PRINCETON		
23A	Hedley	[illegible]	[illegible]
23B	Keremeos	[illegible]	[illegible]
23C	Princeton	[illegible]	[illegible]
23D	Tulameen	[illegible]	[illegible]
30	VERNON		
30A	Kelowna	[illegible]	[illegible]
30B	Lumby	[illegible]	[illegible]
30C	Okanagan Centre	[illegible]	[illegible]
30D	Peachland	[illegible]	[illegible]
30E	Vernon	[illegible]	[illegible]
30G	Mara	[illegible]	[illegible]
04	**KOOTENAY**		
06	CRANBROOK		
06A	Cherry Creek	8	1
06B	Cranbrook	11	2
06C	Gold Creek	4	
06D	Moyie	1	
06F	Skookumchuck	5	
06G	St Mary	20	4
06J	Wardner	2	4

Code	REGION	No. of Licences	No. of Dams
[illegible]	[illegible]	[illegible]	[illegible]
18R	Rossland	[illegible]	
18S	Slocan City	[illegible]	
18T	Slocan Junction	[illegible]	[illegible]
18U	Waneta	[illegible]	[illegible]
18P	Ymir	[illegible]	
27	REVELSTOKE		
27A	Arrowhead		[illegible]
27B	Downie		[illegible]
27C	French Creek		[illegible]
27D	Illecillewaet	1	[illegible]
27E	Revelstoke	4	1

Code	REGION	No. of Licences	No. of Dams
05	NORTHERN REGION - SKEENA		
[illegible]	[illegible]	[illegible]	[illegible]
05	NORTHERN REGION - OMINECA-PEACE		
[illegible]	[illegible]	[illegible]	[illegible]
24	PRINCE GEORGE		
24A	[illegible]		
24B	McBride	4	2
24C	Parsnip	11	2
24D	Upper Fraser	5	11
24E	Vanderhoof	33	23


ADMINISTRATION
GOVERNMENT AGENTS
SUB OFFICE Telegraph Creek
BRITISH COLUMBIA
REFERENCE
VANCOUVER
VICTORIA
U. S. A.

PUBLICATION OF
SMALL HYDRO PROJECTS AND POTENTIAL SITES

MAP 3 PRECINCTS, LICENCES AND DAMS

NOTE:

1. Numbers of water licences shown are those most likely to have available potential for small hydro (e.g. small domestic licences not included). Number of dams are shown, but their suitability cannot be estimated.
2. See List of Licences, this sheet.